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Sessional papers

SESSIONAL PAPERS

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SECOND SESSION

OF THE

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OF THE

PROVINCE OF ONTARIO

SESSION 1913

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No. 2 Estimates—Supplementary, for the service of the Province for the year ending 31st October, 1913. Presented to the Legislature, 28th February and 9th April, 1913. *Printed.* Estimates for the year ending 31st October, 1914. Presented to the Legislature, 14th April, 1913. *Printed.*

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No. 4 Report of the Bureau of Mines for the year 1912. Presented to the Legislature, 28th March, 1913. *Printed.**

No. 5 Report of the Inspector of Division Courts for the year 1912. Presented to the Legislature, 24th February, 1913. *Printed.*

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No. 10 Report of the Department of Insurance for the year 1912. Presented to the Legislature, 13th March, 1913. *Printed.*

No. 10 (*a*) Report of the Registrar of Friendly Societies for the year 1912. Presented to the Legislature, 13th March, 1913. *Printed.*

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No. 19 Report of Registrar General upon Births, Marriages and Deaths, for the year 1912. Presented to the Legislature, 4th March, 1913. *Printed.*

No. 20 Report of the Board of Health for the year 1912. Presented to the Legislature, 15th April, 1913. *Printed.*

No. 21 Report upon the Hospitals for the Insane for the year 1912. Presented to the Legislature, 3rd April, 1913. *Printed.*

No. 22 Report upon the Hospitals for Idiots, Orillia, and Epileptics, Woodstock, for the year 1912. Presented to the Legislature, 3rd April, 1913. *Printed.*

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No. 23 Report upon the Feeble-Minded for the year 1912. Presented to the Legislature, 3rd April, 1913. *Printed.*

No. 24 Report upon the Hospitals and Charities for the year 1912. Presented to the Legislature, 9th April, 1913. *Printed.*

No. 25 Report upon the Prisons and Reformatories for the year 1912. Presented to the Legislature, 3rd April, 1913. *Printed.*

No. 26 Report upon the Neglected and Dependent Children for the year 1912. Presented to the Legislature, 25th March, 1913. *Printed.*

No. 27 Report upon the operation of the Liquor License Acts for the year 1912. Presented to the Legislature, 28th February, 1913. *Printed.*

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No. 28 Report of the Department of Agriculture for the year 1912. Presented to the Legislature, 17th April, 1913. *Printed.*

No. 29 Report of the Agricultural College and Experimental Farm for the year 1912. Presented to the Legislature, 17th April, 1913. *Printed.*

No. 30 Report of the Veterinary College for the year 1912. Presented to the Legislature, 17th April, 1913. *Printed.*

No. 31 Report of the Agricultural and Experimental Union for the year 1912. Presented to the Legislature, 17th April, 1913. *Printed.*

No. 32 Report of the Fruit Growers Association for the year 1912. Presented to the Legislature, 17th April, 1913. *Printed.*

No. 33 Return to an Order of the House of the 5th March, 1913, for a Return of copies of all correspondence between the Government, or any member thereof, and Dr. F. B. Fernow, regarding Reforestry work, or any class of work on behalf of the Government of Ontario, in any capacity. Presented to the Legislature, 22nd April, 1913. *Mr. Gamey. Not printed.*

No. 34 Report of the Vegetable Growers' Association for the year 1912. Presented to the Legislature, 17th April, 1913. *Printed.*

No. 35 Report of the Corn Growers' Association for the year 1912. Presented to the Legislature, 17th April, 1913. *Printed.*

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No. 38 Report of the Dairymen's Association for the year 1912. Presented to the Legislature, 17th April, 1913. *Printed.*

No. 39 Report of the Live Stock Association for the year 1912. Presented to the Legislature 20th February, 1913. *Printed.*

No. 40 Report of the Farmer's Institutes for the year 1912. Presented to the Legislature, 20th February, 1913. *Printed.*

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No. 42 Report of the Horticultural Societies for the year 1912. Presented to the Legislature, 17th April, 1913. *Printed.*

No. 43 Report of the Agricultural Societies for the year 1912. Presented to the Legislature, 20th February, 1912. *Printed.*

No. 44 Report of the Bureau of Industries for the year 1912. Presented to the Legislature, 17th April, 1913. *Printed.*

No. 45 Report of the Inspector of Factories for the year 1912. Presented to the Legislature, 17th April, 1913. *Printed.*

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No. 46 Report of the Temiskaming and Northern Ontario Railway Commission for the year 1912. Presented to the Legislature, 13th March, 1913. *Printed.*

No. 47 Report of the Hydro-Electric Power Commission for the year 1912. Presented to the Legislature, 6th March, 1913. *Printed.*

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No. 49 Return from the Records of the Elections held on the 28th October, 5th November, 1912, and 19th March, 1913. Presented to the Legislature, 4th February and 26th March, 1913. *Printed.*

No. 50 Report of the Archivist for the year 1912. Presented to the Legislature, 21st April, 1913. *Printed.*

No. 51 Report of Librarian upon the State of the Library for the year 1912. Presented to the Legislature, 5th February, 1913. *Not printed.*

No. 52 Return to an Order of the House of the 11th April, 1912, for a Return shewing: 1. The quantity of pine timber cut at or near mileage 81 on the Timiskaming and Northern Ontario Railway during each of the seasons 1907-1908, 1908-1909, 1909-1910, 1910-1911, by the North Land Mining Company, Limited. 2. The price at which the said pine timber was sold to the said Company in each of the said seasons. 3. The names of the persons by whom the pine cut in each of the said seasons by the said Company was measured for the Government. 4. The names of the original incorporators of the said Company and the names of its shareholders and directors in each of the years 1907, 1908, 1910, 1911 and 1912. Presented to the House 13th February, 1913. *Mr. Mageau. Not printed.*

No. 53 Return to an Order of the House of the 9th April, 1912, for a Return of Copies of all correspondence, official or unofficial, reports and written memoranda of every kind passing between the Government or any Minister or officer thereof and any other person or corporation with respect to:—(*a*) The granting of a permit for a tug owned by the Dominion Fish Company to fish on what is known as "the Lizard Island Preserve," during the season 1911, and copy of such permit. (*b*) The granting of a permit or permits to any other body or person or corporation to fish upon the said Lizard Island Preserve during the season 1911, together with copies of such permits. (*c*) The granting of permits to move the tugs of the Dominion Fish Company from one fishing ground to another, in either of the years 1909, 1910, 1911, with copies of such permits. (*d*) The issue of permits permitting the removal of tugs or other fishing boats owned by persons or corporations other than the Dominion Fish Company from one fishing ground to another during the seasons 1909, 1910, 1911, with copies of such permits. (*e*) The issue of a license to a Canadian-owned tug or boat to fish in waters of the Lizard Island Preserve in either of the seasons of 1911 or 1912, with copy of such license, if any. (*f*) The issue of licenses or permits to use 5-lb. or 6-lb. nets on the said Lizard Island Preserve during the seasons of 1911 and 1912, with copies of such licenses or permits. Presented to the Legislature, 13th February, 1913. *Mr. Mageau. Not printed.*

No. 54 Return to an Address to His Honour the Lieutenant-Governor of the sixth day of March, 1911, praying that he will cause to be laid before this House, a Return of copies of all correspondence between the Province of Ontario and the Dominion of Canada, regarding the establishment of Fish Hatcheries in Ontario. Presented to the Legislature, 13th February, 1913. *Mr. Gamey. Not printed.*

No. 55 Copies of Orders in Council and Regulations to be laid before the Legislative Assembly as required by section 27 of the Department of Education Act. Presented to the Legislature, 13th February, 1913. *Not printed.*

No. 56 Copy of an Order in Council approved by His Honour the Lieutenant-Governor the thirtieth day of April, A.D. 1912, pursuant to provisions of Subsection 3 of Section 78 of the Surrogate Courts Act, Chapter 31, 10 Edward VII., that there be paid to His Honour C. F. Sutherland, of the County Court of the County of Grey, from year to year during his tenure of Office, the Surplus Surrogate Fees over and above the amount payable by Statute to the Surrogate Judge of the said County of Grey, provided, however, that the sum paid out of the said Surplus Surrogate Fees shall not in any year exceed the sum of six hundred and sixty-six dollars ($666.00). Presented to the Legislature, 14th February, 1913. *Not printed.*

No. 57 Return to an Order of the House of the 11th April, 1912, for a Return of copies of (1) All correspondence passing between the Government or any Minister or official thereof or any commission under the Government or any official thereof and any other person or corporation with respect to the development of the Smoky Falls Water Power on the Sturgeon River for the benefit of the Town of North Bay. Presented to the Legislature, 17th February, 1913. *Mr. Mageau. Not printed.*

No. 58 Return to an Order of the House of the 17th day of February, 1913, for a Return shewing whether the Prime Minister or any person on his behalf received a telegram purporting to be from one Rowlandson of Elk Lake between the 1st and 11th days of December, 1911, addressed to the Prime Minister with reference to the building of the Elk Lake Branch of the Timiskaming and Northern Ontario Railway. 2. If such telegram was received, the contents of such telegram. 3. If such telegram was received, did the Prime Minister or any person in his name or with his authority or knowledge or on his behalf send a telegram in reply to the said Rowlandson. 4. If so, the date of such telegram and the contents thereof. Presented to the Legislature, 17th February, 1913. *Mr. Elliott. Not printed.*

No. 59 Return to an Order of the House of 2nd April, 1912, for a Return of copies of all correspondence between any person or persons whatever and the Government of Ontario, or any Minister or Official thereof, with respect to the water power on the Montreal River, known as the "Notch" and all applications for a lease of the said water power and any and all leases issued, assignments of any such leases and all other papers and documents in any way relating to the said "Notch" water power or to the Montreal-Cobalt Power Company, Limited, since the 1st day of January, 1905. Presented to the Legislature, 18th February, 1913. *Mr. Mageau. Not printed.*

No. 60 Return to an Order of the House of the 28th March, 1912, for a Return of Copies of (1) All correspondence between the Department of the Attorney-General or any official thereof and any other person whatsoever with respect to certain charges against M. Houston, one time Police Magistrate for the City of Chatham. (2) All charges against the said M. Houston. (3) All Commissions issued, evidence taken and documents submitted in connection with the said charges and the dismissal of the said M. Houston from his office as Police Magistrate. Presented to the Legislature, 18th February, 1913. *Mr. Richardson. Not printed.*

No. 61 Return to an Order of the House of the 20th March, 1912, for a Return of Copies of: 1. All correspondence, reports, estimates or returns of any kind and from any source respecting the quantity of timber cut upon the Munn limits in the seasons of 1909-10, 1910-11 and 1911-12. 2. The amount received by the Government of Ontario for timber dues. stumpage, rentals, or otherwise howsoever in connection with the said limits in each of the financial years 1909-10-11 with full details. 3. The Annual Return made to the Department of the Provincial Secretary by the Munn Lumber Company, Limited, for the years 1909, 1910 and 1911. Presented to the Legislature, 21st February, 1913. *Mr. Sinclair. Not printed.*

No. 62 Return to an Order of the House of the 11th March, 1912, for a Return showing:—1. (*a*) The number of Forest Rangers and Timber Cullers employed by the Government of Ontario in the seasons of 1903-4 and 1904-5. (*b*) The number of feet of timber measured in each season. (*c*) The amount of money paid in each of the said seasons to (1) Forest Rangers, (2) Timber Cullers. 2. Also showing all the information hereinbefore asked for with respect to the seasons 1909-10 and 1910-11. Presented to the Legislature, 21st February, 1913. *Mr. Mageau, Not printed.*

No. 63 Return to an Order of the House of the 17th February, 1913, for a Return of a Copy of the Report made by Mr. E. Saunders, appointed to investigate into certain charges made by Michael Farr of an attempt made to procure money from him in consideration of a license being renewed for the Union Hotel in the Town of Goderich, together with copies of all correspondence which passed between the Government and any person in reference to the said license or the said investigation, the evidence taken by Mr. Saunders and generally all papers, letters, memoranda or papers of any kind and description relating to the said license, including all papers, and correspondence relative to the refusal of a renewal of such license. Presented to the Legislature, 21st February, 1913. *Mr. Proudfoot. Not printed.*

No. 64 Return to an Order of the House of thirteenth day of April, 1912, for a Return of:—(*a*) All memorials, resolutions, letters or other written memoranda received by the Government or any Minister or official thereof since the 1st day of January, 1910, from any individual, public officer or organization with respect to the increase of the number of Judges of the Supreme Court of Judicature for Ontario or with respect to the changes in the constitution of the Supreme Court of Judicature for Ontario provided for in sections 1 to 19 inclusive, of The Law Reform Act, 1909. (*b*) Copies of all letters or written memoranda from the Government or any Minister or official thereof to any individual, public officer, or organization with respect to the said two subject matters, or either of them, since the said date. Presented to the Legislature, 26th February, 1913. *Mr. Elliott. Not printed.*

No. 65 Statement of the Auditor made pursuant to the provisions of Section 13, subsection 2, of the Audit Act as amended by Section 6, of Chapter 10, 9 Edward VII. Presented to the Legislature, 28th February, 1913. *Printed.*

No. 66 Return to an Order of the House of the 14th March, 1912, for a Return showing:—How many male patients have been admitted to each of the Provincial Institutions for the Insane, Feeble Minded, and Epileptics during the three years beginning Jan. 1st, 1909, and ending Dec. 31st, 1911. How many female patients were admitted to these institutions during the same years. How many male patients were discharged from each of these institutions during the same three years. How many female patients were discharged from each of these institutions during these years. Of these male patients discharged: 1st. How many were discharged recovered; 2nd. How many were discharged improved; 3rd. How many were discharged unimproved. Of the female patients discharged: 1st. How many were discharged recovered; 2nd. How many were discharged improved; 3rd. How many were discharged unimproved. Of the female patients discharged how many were under 45 years of age. Of the patients admitted to each of these institutions during the years 1909, 1910 and 1911 how many were admitted for the first time. How many were admitted for the second time. How many were admitted for the third time. How many had been admitted more than three times. In how many of these cases admitted during these years is there evidence that the patients have become the father or mother of children after the first attack of insanity. In how many of these patients is there a history of insanity, epilepsy or imbecility in the father, mother, brother or sister of the patient. In how many of these patients is there a history of insanity, epilepsy or imbecility in the children of the patients. How many patients are in each of these institutions who have had a father,

mother, son or daughter in an asylum at some time. Presented to the Legislature, 28th February, 1913. *Mr. Godfrey. Not printed.*

No. 67 Return to an Order of the House of the 19th February, 1913, for a Return showing:—1. The number of meetings of the Advisory Council of Education held in each of the years 1909, 1910, 1911 and 1912. 2. The total number of meetings attended by each of the different members of this Council during each of the said years. 3. The total number of votes received by each candidate for representative of the public school teachers and for each candidate for representative of the high school teachers for each of the said years. Presented to the Legislature 28th February, 1913. *Mr. Marshall. Not printed.*

No. 68 Orders in Council issued under the provisions of Section 10 of Cap. 2, 2 George V. Presented to the Legislature, 3rd March, 1913. *Not printed.*

No. 69 Return to an Order of the House of the 3rd March, 1913, for a Return showing:—1. Copies of the Culler's report made by the Fort Frances Lumber Company for the logging seasons of 1909-10, 1910-11, 1911-12. Presented to the Legislature, 4th March, 1913. *Mr. Kohler. Not printed.*

No. 70 The Mining Industry in that part of Ontario served by the Timiskaming and Northern Ontario Railway for the year 1913. Presented to the Legislature, 11th March, 1913. *Printed.*

No. 71 Report of T. G. McMillan, covering investigations at James' Bay during 1912. Presented to the Legislature, 11th March, 1913. *Printed.*

No. 72 Report on the increase of the food supply for Ducks in Northern Ontario by G. R. Mickle, with description of edible plants by R. B. Thompson. Presented to the Legislature, 11th March, 1913. *Printed.*

No. 73 A Return to an Order of the House of the 26th February, 1913, for a Return showing: 1. All lands (other than the Railway's right of way) owned by the Timiskaming and Northern Ontario Railway Commission situate in the various municipalities of the Province, stating the municipality in which the land is situate, the area and estimated value of the land, and showing which are mineral lands, agricultural lands and town lots. 2. All lands (other than the Railway's right of way) owned by the Timiskaming and Northern Ontario Railway Commission situate in any unorganized territory within the Province, stating the unorganized territory in which the land is situate, the area and estimated value of the land, and showing which are mineral lands, agricultural lands and town lots. Presented to the Legislature, 10th March, 1913. *Mr. Atkinson. Not Printed.*

No. 74 Return to an Order of the House of the 3rd March, 1913, for a Return showing:—1. How much the Government has spent on private detective work in each of the years 1910, 1911 and 1912. 2. How much of the amount mentioned in the first paragraph hereof, has been spent by the Government in connection with the administration of the Liquor License Laws. 3. What amount was recovered in fines and penalties under the Liquor License Act, in each of the years 1910, 1911 and 1912. Presented to the Legislature, 12th March, 1913. *Mr. McQueen. Not printed.*

No. 75 Return to an Order of the House of the 11th April, 1912, for a Return of copies of all correspondence between the Government and any Minister or Official thereof with respect to the character, efficiency or teaching in the Schools in Simcoe, Stormont, Prescott, Russell and Glengarry Counties since January 1st, 1910. Of all orders, regulations, provisions or other means authorized or directed by the Government or any member or official thereof, to meet or in consequence of any of the said memorials, resolutions, affidavits, protests, charges or complaints. The schools in the said Counties from which the Provincial grant was withheld in the years 1910 and 1911 respectively. The reports or other evidence upon which grants were paid in 1911 to any schools in the said counties from which grants had been withheld in 1910. Presented to the Legislature, 14th March, 1913. *Mr. Elliott. Not printed.*

No. 76 Return to an Order of the House of the 14th March, 1913, for a Return of copies of: 1. All complaints from any other person or persons received in the years 1911 and 1912 by the Government or any Member of the Government regarding the conduct of Police Magistrate Dempsey. 2. All prosecutions instituted or carried on before Superintendent Rogers as a special magistrate within the Town of Cochrane during the years 1911 and 1912. 3. All protests filed with the Government, with the Prime Minister, the Provincial Secretary, Attorney-General or any other Member of the Government by the corporation of the Town of Cochrane, the Board of Trade or the citizens of the Town of Cochrane against the action of Superintendent Rogers in exercising or assuming to exercise jurisdiction within the Town of Cochrane as a special magistrate. Presented to the Legislature, 14th March, 1913. *Mr. Sinclair. Not printed.*

No. 77 Return to an Order of the House of the 26th February, 1913, for a Return of copies of all correspondence between the Department of Education, the Minister of Education himself, and the Board of Trustees of the Schools of the Village of Plantagenet since the 1st day of March, 1905, up to the 1st day of December, 1908, regarding the Teaching of French. Presented to the Legislature, 17th March, 1913. *Mr. Evanturel. Not printed.*

No. 78 Return to an Order of the House of the 24th February, 1913, for a Return of (1) Copies of the letters referred to on the last page of the brief furnished to the Attorney-General by the Crown Counsel in the proceedings against the Stamped Ware Association, showing offences under the different subsections of Section 520 of the Criminal Code, each incriminating letter being marked *a, b, c,* or *d,* as it discloses an offence against a subsection. The said brief forms part of Return 82, Session 1912. (2) Copies of all correspondence between the Crown Counsel and the Government with reference to prosecution of the said combine and all correspondence containing instructions, if any, from the Government not to prosecute. Presented to the Legislature, 17th March, 1913. *Mr. Elliott. Not printed.*

No. 79 Return to an Order of the House of the 14th March, 1913, for a Return of: (1) A copy of the information, depositions and proceedings before the Police Magistrate of Toronto (including the warrant of commitment) with respect to the members of the Tack Combine who were committed for trial by the Police Magistrate of the City of Toronto. (2) Copies of all correspondence passing between the Attorney-General or any one on his behalf or on behalf of the Government and Mr. Du Vernet, K.C., Crown Counsel, or anyone on his behalf with reference to the trial of the members of the Tack Combine. Presented to the Legislature, 17th March, 1913. *Mr. Rowell. Not printed.*

No. 80 Report on Road Construction under 2 George V. Cap. 2, being Consolidated Revenue Act of Ontario. Presented to the Legislature, 19th March, 1913. *Printed.*

No. 81 Return to an Order of the House of the 12th March, 1913, for a Return showing:—Copies of all correspondence between the Chairman or any other member of the T. & N. O. Railway Commission or any other person on their behalf and any official or employee of the T. & N. O. Railway at North Bay relative to the appointment of W. I. Johnston to his present position with the T. & N. O. Railway at North Bay, Ont. Presented to the Legislature, 19th March, 1913. *Mr. Munro. Not printed.*

No. 82 Report of S. Price *re* limitation of hours of Labour of underground workmen in the Mines of Ontario. Presented to the Legislature, 20th March, 1913. *Printed.*

No. 83 Return to an Order of the House of the 7th March, 1913, for a Return showing:—1. Copy of the information laid against one Stone before the Police Magistrate at Collingwood, in January, 1913, for an alleged violation of the Liquor License Act. 2. Copy of the judgment of the magistrate. Presented to the Legislature, 28th March, 1913. *Mr. Anderson (Bruce.) Not printed.*

No. 84 Return to an Order of the House of the 26th February, 1913, for a Return showing:—1. All expenses incurred by the Hydro-Electric Power Commission, or the Government, or by any person or persons on their behalf, in connection with the passing of the Hydro-Electric By-law at North Bay in January, 1913, or for the purpose of procuring the passage of such By-law, or otherwise connected with the submission of such By-law to the electors of North Bay. 2. The names of all persons employed by the Hydro-Electric Power Commission who were in or visited the Town of North Bay during the months of December or January last, and the purposes for which they were employed in the Town of North Bay, and the amounts that were paid to each of them for their services there. 3. Copies of all correspondence between the Hydro-Electric Power Commission, or the Government, or any person or persons on behalf of the Hydro-Electric Power Commission, or the Government, and the Council of the Town of North Bay, or any person on behalf of the said Council, relating to the Hydro-Electric By-law. Presented to the Legislature, 1st April, 1913. *Mr. Mageau. Not printed.*

No. 85 Further interim Report of the Commissioner on the subject of Compensation to Workmen for Injuries sustained in the course of their employment, together with draft Bill, embodying the Commissioner's conclusions. Presented to the Legislature, 2nd April, 1913. *Printed.*

No. 86 A preliminary study by H. G. Acres, of the Hydro-Electric Power Commission, dealing with the possibility of improving the general regimen and local flow characteristics of the Grand River, by means of Storage and Training Works. Presented to the Legislature, 3rd April, 1913. *Not printed.*

No. 87 Return to an Order of the House for a Return showing:—Copies of all correspondence passing between the Department of Education or the Minister or any official thereof and J. Russell McGregor of Gore Bay (President of the Manitoulin Conservative Association), the Public School Board of Gore Bay, the Public School Inspector in Manitoulin or any other person concerning the granting of a temporary teacher's certificate to one Jean McGregor. 2. A copy of the temporary certificate or temporary certificates granted to the said Jean McGregor. 3. Copy of the Departmental Regulations under which the Minister acted in granting the temporary certificate to the said Jean McGregor. 4. Copies of all advertisements (stating the dates of the same), inserted in any paper or papers prior to the granting of such temporary certificate to Jean McGregor, as required by subsection 2 of section 2 of Circular 30½, dated 7th May, 1912, issued by the Department of Education. 5. The evidence (if any) which the Minister had before him at the time such tem-

porary certificate was granted, that the school board had " taken due measures to obtain a teacher with the prescribed grade of certificate," before the Inspector made his recommendation that Jean McGregor should be granted a temporary certificate. Presented to the Legislature, 4th April, 1913. *Mr. Marshall. Not printed.*

No. 88 A return to an Order of the House of the 21st February, 1913, for a Return showing:—1. All petitions, letters and other documents passing between the British settlers at Jeannette, Kent County, Ontario, and the Premier, the Minister of Agriculture, or any other member of the Government, or any officer or official thereof. 2. All reports by any officer or official of the Government on conditions at Jeannette. 3. All correspondence with the Department of Colonization, the Minister of Agriculture, or any officer or official of the Government in reference to the conditions at Jeannette. Presented to the Legislature, 7th April, 1913. *Mr. Anderson (Bruce.) Not printed.*

No. 89 Return to an Order of the House of the 26th February, 1913, for a Return showing:—1. The number of passes issued by the Timiskaming and Northern Ontario Railway Commission over its line of railway or any part thereof during the period from July 1st, 1911, to 1st July, 1912. 2. The persons to whom the said passes were granted. 3. The purpose for which each of the said passes was granted. Presented to the Legislature, 7th April, 1913. *Mr. Mageau. Not printed.*

No. 90 Return to an Order of the House of the 10th March, 1913, for a Return showing:—1. Copies of the agreements entered into by the members of the following combines and seized by the Toronto Police: (*a*) The Saw Manufacturers' Association; (*b*) The Canadian Churn Manufacturing Association; (*c*) The Hame and Saddlery Hardware Manufacturing Association. 2. Copies of all correspondence between the Attorney-General or any other Member of the Government and any counsel with reference to the prosecution of the said combines. Presented to the Legislature, 8th April, 1913. *Mr. Elliott. Not printed.*

No. 91 Return to an Order of the House of the 2nd April, 1913, for a Return showing:—Copies of all reports received by or in the possession of the Government upon the timber in Algonquin National Park covered by the following agreements:—1. Agreement dated 18th June, 1912, between the Crown and the Bank of Montreal. 2. Agreement dated 15th June, 1912, between the Crown and J. R. Booth. 3. Agreement dated 4th June, 1912, between the Crown and H. Stikeman, General Manager of the Bank of British North America. Presented to the Legislature, 8th April, 1913. *Mr. Marshall. Not printed.*

No. 92 Return to an Order of the House of the 3rd April, 1913, for a Return showing:—The findings of the Grand Jury in the prosecution against the Tack Combine. Presented to the Legislature, 8th April, 1913. *Mr. Sinclair. Not printed.*

No. 93 Return to an Address to His Honour the Lieutenant-Governor of the third day of April, 1913, praying that he will cause to be laid before this House, a Return of copies of all Orders in Council passed during the years 1906, 1907, 1908, 1909, 1910, 1911, 1912, increasing or decreasing the duties payable for tavern or shop licenses in any Provincial or Judicial District or in any municipality or locality situated therein, under authority of 6 Edw. VII., Chap. 47, Sec. 10 (1), and showing in respect to every such Order in Council: (*a*) the date of the same, (*b*) the name of the person holding the shop or tavern license affected by the said Order in Council, (*c*) the place where such shop or tavern license was held, (*d*) the amount of license fee as fixed by such Order in Council, (*e*) the amount of the license fee previous to such increase. Presented to the Legislature, 8th April, 1913. *Mr. Anderson (Bruce.) Not printed.*

No. 94 Return to an Order of the House of the 14th March, 1913, for a Return showing:—1. The number of instruments registered in each of the years 1909, 1910, and 1911, in the Land Titles Office, at Toronto. 2. The total amount of fees received in each of the said years. 3. The total amount of disbursements for each such year. 4. The amount of the Guarantee Fund. 5. The total losses. 6. The number of Plans of sub-division. Presented to the Legislature, 9th April, 1913. *Mr. Proudfoot. Not printed.*

No. 95 Copies of Orders-in-Council in accordance with the provisions of subsection 6 of section 78 of the Surrogate Courts Act. Presented to the Legislature, 14th April, 1913. *Not printed.*

No. 96 Copy of an Order in Council approved by His Honour the Lieutenant-Governor, the 3rd day of April, A.D. 1913, approving of the accompanying regulation, being a regulation of the Provincial Board of Health, for the control of Communicable Diseases under the provisions of the Public Health Act, Chapter 58, 2 George V. Also Regulations of the Provincial Board of Health, Ontario, approved by His Honour the Lieutenant-Governor in Council on the 10th day of August, 1912. Presented to the Legislature, 14th April, 1913. *Not printed.*

No. 97 Return to an Order of the House of the 19th February, 1913, for a Return showing:—1. The names of all Counsel retained on behalf of the Crown at any criminal assize in the Province during the year ending 31st December, 1912. 2. The Assize at which each Counsel was so retained. 3. The amount paid

to every such Counsel for services rendered to the Crown at every such assize. 4. The names of all Solicitors or Counsel employed or retained by the Crown for any other purposes during the year ending 31st December, 1912, showing:—(*a*) The amount paid to every such Solicitor or Counsel. (*b*) The matter in respect of which such Counsel or Solicitor was so employed or retained. 5. The total amounts paid to Counsel for the Crown in criminal or other proceedings for the years 1910, 1911 and 1912. Presented to the Legislature, 14th April, 1913. *Mr. Richardson. Not printed.*

No. 98 Return to an Order of the House of the 9th April, 1913, for a Return showing:—1. Copies of all correspondence during the past year between the Minister of Agriculture or any other member or official of the Government and N. B. Colcock (formerly employed in the London Office of the Colonization and Emigration Branch) relating to the reorganization of the London Office, to the staff thereof, or to the resignation of the said Colcock, or to his dismissal from office, or to his retirement from the service of the Government, or to any other matters connected therewith. 2. Copies of all correspondence during the last year between the Minister of Agriculture or any other member or official of the Government and any other person or persons relating to the matters aforesaid. Presented to the Legislature, 15th April, 1913. *Mr. Anderson (Bruce.) Not printed.*

No. 99 Return to an Order of the House of the 15th April, 1913, for a Return showing:—Copies of all reports received by the Government and other information in the possession of the Government: 1. In reference to the general character of the country through which the projected line of the Bruce Mines and Algoma Railroad runs, and of the lands proposed to be granted to the said railway. 2. In reference to the extent and character of the different classes of timber on said lands. 3. In reference to the extent and character of the agricultural lands within the said areas. 4. In reference to the portion of the Mississagi Forest Reserve through which the projected line will pass and the effect that the construction of the said line will have upon the timber in the said Reserve. 5. The estimated length of the said line and the total estimated area of land to be granted to the said railway company. 6. In reference to the surveys already made, and the probable route of the said railway. 7. The names of the parties at present interested in or owning the said railway and who are responsible for its promotion with full information as to their business occupation and financial standing. 8. The character of the plants, mills or other industries upon which the railway undertakes to expend $3,500,000 and the site or sites where it is proposed to locate the same; and if the parties now interested in the railway are the parties who

are to control the industries proposed to be established. Presented to the Legislature, 17th April, 1913. *Mr. Atkinson. Not printed.*

No. 100 Copies of Orders in Council approved by His Honour the Lieutenant-Governor the 12th day of April, A.D. 1913, appointing John Donnelly, Esquire, one of the Governors of the School of Mining, Kingston, in the room and stead of H. W. Richardson, resigned, and Agreements made between the Canada Publishing Company and His Majesty the King, respecting the right to print, publish and supply the Ontario High School English Grammar, and the Ontario High School Reader; also, an Agreement between the Copp, Clark Company, Ltd., and His Majesty the King, respecting the right to print, publish and supply the Ontario High School Reader. Presented to the Legislature, 18th April, 1913. *Not printed.*

No. 101 Return to an Order of the House of the 2nd April, 1913, for a Return showing:—All tavern and shop licenses, the renewal of which has been prohibited by the Provincial Secretary under Section 23 of 6 Edward VII., Chapter 47, as amended by Section 13 of 1 George V. Chap. 64. Presented to the Legislature, 18th April, 1913. *Mr. Proudfoot. Not printed.*

No. 102 Return to an Order of the House of the 27th March, 1913, for a Return showing:—Copies of all licenses or permits granted by the Game and Fisheries Department to the Dominion Fish Company, or to any person on its behalf during the seasons 1910, 1911 and 1912. Presented to the Legislature, 18th April, 1913. *Mr. Clarke. Not printed.*

No. 103 Return to an Order of the House of the 9th April, 1913, for a Return showing:—1. All correspondence between any member or official of the Government or any other person or persons, relating to the application of one John Lapointe of Spanish, for a renewal of his fishery license for the years 1911 and 1912. 2. Any reports or recommendations relating to the matter made by any official of the Game and Fisheries Department. Presented to the Legislature, 18th April, 1913. *Mr. Clarke. Not printed.*

No. 104 Return to an Order of the House of the 10th March, 1913, for a Return showing:—(*a*) Copies of all correspondence between any official of the Government and the Standard Insurance Company during the years 1907, 1908 and 1909. (*b*) A copy of any Reports made by the Inspector who inspected the books of the Standard Insurance Company during the same years. (*c*) Copies of all correspondence between any official of the Government and the Liquidator of the Standard Insurance Company. Presented to the Legislature, 18th April, 1913. *Mr. Elliott. Not printed.*

No. 105 Return to an Order of the House of the 19th February, 1913, for a Return showing:—1. All presentments made by Grand Juries within the Province of Ontario during the year ending 31st December, 1912, stating the assize at which each presentment was made and the date. Presented to the Legislature, 18th April, 1913. *Mr. Sinclair. Not printed.*

No. 106 Return to an Order of the House of the 26th February, 1913, for a Return showing:—1. The amount of money expended directly by the Government in each of the years 1911 and 1912, in the construction or repair of (*a*) roads; (*b*) bridges, and (*c*) drains in each of the Districts of Sudbury, Nipissing, Parry Sound and Sturgeon Falls, distinguishing the amount spent in each of said Districts for each of said purposes. 2. The amount of money expended during 1911 and 1912, by the Government by way of aid to any municipalities in the said Districts in the construction or repair of roads, bridges or drains, stating in respect to each work which was undertaken with Government aid as aforesaid. (*a*) The purpose of the work, that is, whether for roads, bridges or drains, and whether for construction or repair. (*b*) The District in which such work was undertaken. (*c*) The amount expended by the Government on such work. (*d*) The amount expended by the municipality on such work. Presented to the Legislature, 18th April, 1913. *Mr. Mageau. Not printed.*

No. 107 Return to an Order of the House of the 27th February, 1913, for a Return of:—1. Copies of all correspondence during the years 1910 and 1911 between the Minister of Lands, Forests and Mines, or any other member of the Government, and the Imperial Paper Mills Company, or the Liquidator or Interim Liquidator of the Imperial Paper Mills with reference to the diversion of water from Lake Temagimi into the Montreal River. 2. Copies of all correspondence passing during the years 1910 and 1911 between the Minister of Lands, Forests and Mines or any other member of the Government, and the Council of the Town of Sturgeon Falls, or any official or any other person on behalf of the Town of Sturgeon Falls, or the Board of Trade of the Town of Sturgeon Falls, or any person on behalf of the said Board of Trade. 3. How many cubic feet of water per second have been diverted from Lake Temagimi into the Montreal River, and what is the available head of water, and what is the horse power. Presented to the Legislature, 21st April, 1913. *Mr. Mageau. Not printed.*

No. 108 Statement of distribution of Revised and Sessional Statutes for the year 1912. *Not printed.*

No. 109 Return to an Order of the House of the 10th March, 1913, for a Return showing copies of the resolutions (if any) adopted at the Board Meeting held at the Horticultural Experiment Station at Jordan Harbour on or about December 17th last. Pre-

sented to the Legislature, 23rd April, 1913. *Mr. Anderson (Bruce.) Not printed.*

No. 110 Return to an Order of the House of the 27th March, 1913, for a Return showing:—1. Copy of an Order in Council dated the 23rd April, 1910, reducing the royalty payable to the T. & N. O. Railway by the Right of Way Mining Company. 2. Copy of an Order in Council dated 17th December, 1912, further reducing the royalty payable by the Right of Way Mining Company to the T. & N. O. Railway. 3. Copy of an Order in Council dated December 14th, 1909, reducing the royalty payable by the Cobalt Townsite Mining Company to the T. & N. O. Railway. 4. Copy of an Order in Council dated December 17th, 1912, further reducing the royalty payable by the Cobalt Townsite Mining Company to the T. & N. O. Railway. 5. Copy of an Order in Council dated December, 14th, 1909, reducing the royalty payable by the City of Cobalt Mining Company to the T. & N. O. Railway. 6. Copy of an Order in Council dated December 23rd, 1912, further reducing the royalty payable by the City of Cobalt Mining Company to the T. & N. O. Railway. 7. Copy of an Order in Council dated December 14th, 1909, reducing the royalty payable by the Nancy-Helen Mines, Limited, to the T. & N. O. Railway. 8. Copy of an Order in Council dated December 17th, 1912, further reducing the royalty payable by the Nancy-Helen Mines, Limited, to the T. & N. O. Railway. 9. Copy of an Order in Council dated December 14th, 1909, reducing the royalty payable by the Wright Silver Mining Co., to the T. & N. O. Railway. 10. Copy of an Order in Council dated December 17th, 1912, further reducing the royalty payable by the Wright Silver Mining Co., to the T. & N. O. Railway. 11. Copy of an Order in Council dated December 14th, 1909, reducing the royalty payable by the Railway Reserve Mines, Limited, Jack Pot Silver Mining Company, Ontario Development and Mining Company, and Station Grounds Mining Company, to the T. & N. O. Railway. 12. Copy of an Order in Council dated December 17th, 1912, further reducing the royalty payable by the Railway Reserve Mines, Limited, Jack Pot Silver Mining Co., Ontario Development and Mining Company and Station Grounds Mining Company, to the T. & N. O. Railway. 13. Copy of an Order in Council or agreement reducing the royalty payable by the O'Brien Mine to the Crown. 14. Copy of Order in Council or agreement, further reducing the royalty payable by the Chambers-Ferland Mining Company from 25 *per cent.* of value of ore at pit's mouth, less surface charges, to 25 *per cent.* of net profits. 15. Copy of agreement dated 8th October, 1912, exempting Chambers-Ferland Mining Company from royalty, unless on rich ore being found, when rate of 25 *per cent.* on net profits made to be imposed. Presented to the Legislature, 23rd April, 1913. *Mr. McDonald. Not printed.*

No. 111 Return to an Order of the House of the 26th February, 1913, for a Return shewing:—1. Copies of all correspondence and other papers, documents, etc., seized by the Crown in connection with the prosecution of the Canadian Washing Machine Manufacturing Association. 2. Copies of all correspondence between the Government or any member or official of the Government and any other person or persons relating to the Canadian Washing Machine Manufacturing Association, or the prosecution thereof, or the discontinuance of such prosecution. 3. Copies of all correspondence and other papers, documents, etc., seized by the Crown in connection with the prosecution of the Canadian Clothes Wringer Manufacturing Association. 4. Copies of all correspondence between the Government, or any member or official of the Government, and any other person or persons, relating to the Canadian Clothes Wringer Manufacturing Association, or the prosecution thereof, or the discontinuance of such prosecution. Presented to the Legislature, 23rd April, 1913. *Mr. Sinclair. Not printed.*

No. 112 Return to an Order of the House of the 14th March, 1913, for a Return showing:—For the year 1912. 1. The number of cases in which damage suits were entered in Court against the employer. 2. The number of instances where damages were obtained and the amounts. 3. The number of cases non-suited by the Court. 4. The number of cases where employers settled by paying compensation without damage suit and the amounts. Presented to the Legislature, 7th May, 1913. *Mr. McQueen. Not printed.*

No. 113 Return to an Order of the House of the 27th March, 1913, for a Return showing:—1. The names of the professors of the Faculty of Education (not including instructors in practice schools) at (*a*). Toronto University; (*b*), Queen's University. 2. The number of hours teaching done by each of said professors *per* week. 3. The number of students in attendance in the Faculty of Education during the Session 1912-1913, at (*a*), Toronto University; (*b*), Queen's University. 4.The average cost *per* pupil in the Faculty of Education during each of the last five years at (*a*), Toronto University; (*b*), Queen's University. 5. The number of extra-mural students under instruction by the Faculty of Education at (*a*), Toronto; (*b*), Queen's. 6. The number of hours of instruction *per* session given in each of the following subjects of the course of study in education:—(*a*) History of Education and Educational systems; (*b*) Principles of Education; (*c*) Psychology and General method; (*d*) School management and school law; (*e*) Methods in Public School subjects; (*f*) Methods in High School subjects; (*g*) Art work; (*h*) Commercial work and writing; (*i*) Constructive work; (*j*) Household science; (*k*) Nature study; (*l*) Music; (*m*) Physical training; (*n*) Physiology and Hygiene, including treatment of emergencies. Presented to the Legislature, 7th May, 1913. *Mr. Marshall. Not printed.*

REPORT

OF THE

Secretary and Registrar

OF THE

PROVINCE OF ONTARIO

FOR THE YEAR
ENDING 31st DAY OF OCTOBER

1912

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

TORONTO:
Printed and Published by L. K. CAMERON, Printer to the King's Most Excellent Majesty
1913

Printed by
WILLIAM BRIGGS
29-37 Richmond Street West
TORONTO

To His Honour SIR JOHN MORISON GIBSON, Knight Commander of the Most Distinguished Order of St. Michael and St. George, a Colonel in the Militia of Canada, etc., etc., etc.,

Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

The undersigned begs respectfully to present to Your Honour the Report prepared with respect to the chief transactions of the Department of the Secretary and Registrar of the Province of Ontario during the year ending 31st day of October, 1912.

W. J. HANNA,

Secretary and Registrar of the Province of Ontario.

PROVINCIAL SECRETARY'S OFFICE,

Toronto, March, 1913

REPORT

OF THE

SECRETARY AND REGISTRAR

OF THE PROVINCE OF ONTARIO

For the Year ending October 31st, 1912.

PROVINCIAL SECRETARY'S OFFICE,

TORONTO, March, 1913.

To the Honourable

WILLIAM JOHN HANNA, M.P.P.

Secretary and Registrar of the Province of Ontario.

SIR,—I beg leave to submit the Annual Report of the Provincial Secretary's office for the year ending October 31st, 1912, showing details of the various services rendered by the office during that period.

The following table shows the fees as they were received month by month:

STATEMENT OF OFFICE FEES RECEIVED, BY MONTHS, 1912.

November	$20,080 90
December	21,006 95
January	35,223 52
February	37,267 40
March	30,647 98
April	43,638 65
May	34,445 42
June	23,462 49
July	27,725 90
August	24,879 05
September	18,322 25
October	24,101 80
Total	$340,802 31

STATEMENT OF SOURCE OF FEES RECEIVED DURING 1912.

Letters Patent, Licenses, etc	$232,079 05
Companies' Returns	25,789 50
Automobile Licenses	73,255 96
Marriage Act Forms	5,487 00
Commissions under Great and Privy Seal	1,830 30
Certificates	216 00
By-Laws, Copies and Searches	2,144 50
Total	$340,802 31

NUMBER OF CHARTERS AND LICENSES ISSUED.

Year.	No. of Instruments.	Fees.
1892	158	$6,780 00
1893	138	8,465 00
1894	139	7,729 00
1895	174	10,000 00
1896	154	14,335 00
1897	358	34,650 00
1898	295	23,820 00
1899	416	60,817 00
1900	438	71,179 00
1901	450	75,782 00
1902	591	95,330 00
1903	578	107,166 00
1904	673	87,177 00
1905	828	108,621 00
1906	1,045	181,998 11
1907	1,067	227,312 90
1908	924	132,252 50
1909 (ten months)	828	171,695 80
1909–10	1,110	183,780 45
1910–11	1,211	235,662 10
1911–12	1,288	232,079 05

REPORT OF LICENSES ISSUED FOR AUTOMOBILES, ETC., DURING THE YEAR 1912.

Auto Licenses:		
To cars owned in Ontario	11,939 00	
To others	4,327 00	
		16,266 00
Motor Cycle Licenses:		
To motors owned in Ontario	1,648 00	
To others	106 00	
		1,754 00
Chauffeur Licenses		2,965 00
Total receipts from all licenses		$73,255 96

The usual Tables and Appendices accompany this Report.

All of which is respectfully submitted,

S. A. ARMSTRONG,
Assistant Secretary.

APPENDIX A.

List of Companies incorporated for the year 1912, ending October 31st.

Name.	Address.	Capital.
A.		
The Athabaska Development Company, Limited	Toronto	40,000
The Architectural Metal Company, Limited	Ottawa	75,000
The Attachable Player Action Company of Canada, Limited	Clinton	40,000
Anglo-Canadian Realty Company, Limited	Toronto	40,000
The Ambitious City Realty Company, Limited	Hamilton	50,000
Anglo-Canadian Exploration & Development Co., Ltd.	Toronto	250,000
Acme Gold Mines, Limited	Toronto	3,000,000
Automatic Sprinkler Company of Canada, Limited	Hamilton	40,000
Auto-Taxi Livery, Limited	Toronto	40,000
Augarita Mines, Limited	Toronto	2,000,000
The Arnprior Box Company, Limited	Arnprior	40,000
Alabastine Hardmortar, Limited	East Toronto	40,000
Aurora Orchards, Limited	Toronto	40,000
Auto Garage Company, Limited	Hamilton	40,000
Algoma Agency and Supply Company, Limited	Sault Ste. Marie	40,000
American Eagle Mining Company, Limited	Toronto	40,000
Automobile Livery Company, Limited	Toronto	40,000
The Asbestos and Rubber Goods Company, Limited	Toronto	40,000
A. B. P. Mining Company, Limited	Toronto	40,000
American Radiator Company of Canada, Limited	Brantford	500,000
Adductor Davits, Limited	Toronto	100,000
Ayr Fishing Club, Limited	Toronto	5,000
Automobile Co-operative Society, Limited	Toronto	40,000
Automobile Owners' Association, Limited	Toronto	100,000
Anglo-Ontario Land Company, Limited	Toronto	40,000
The Algunican Development Company, Limited	Haileybury	1,500,000
A1 Investments, Limited	Toronto	40,000
Anchorite Mining Company, Limited	Toronto	250,000
The Auburn Nurseries, Limited	Queenston	150,000
S. Allen, Limited	Norwich	200,000
The Andrew Jergens Company, Limited	Perth	300,000
Asphaltic Concrete Company, of Toronto, Limited	Toronto	40,000
Aladdin Cobalt Company, Limited	Toronto	500,000
Alerts, Limited	Hamilton	200,000
American Cement Tile Manufacturing Co., of Canada, Ltd.	Toronto	40,000
Abitibi Pulp and Paper Mills, Limited	Toronto	3,000,000
Algoma Fruit Growers, Limited	Sault Ste. Marie	40,000
Anderson & Company, Limited	North Bay	40,000
Auto Top and Body Company, Limited	Toronto	200,000
Abingdon Realty Company, Limited	Toronto	100,000
Agnew Electric Welder Company, Limited	Walkerville	40,000
The Algoma Hardwood Flooring and Lumber Mfg. Co., Ltd.	Steelton	40,000
B.		
The Bowmanville Realty Company, Limited	Bowmanville	50,000
Beeton Watch Company, Limited	Toronto	40,000
Bigwin Island Land Company, Limited	Huntsville	100,000
The Brantford Oven and Rack Company, Limited	Brantford	50,000
The Butwell Brick Company, Limited	Toronto	75,000
Brantford Cold Storage Company, Limited	Brantford	40,000
Bathurst Estates, Limited	Toronto	100,000
The Babcock Filter Company, Limited	Toronto	40,000
Best, T. H., Printing Company, Limited	Toronto	40,000
Birmingham, T. H., & Company, Limited	Toronto	40,000
Beaver Canning Company, Limited	Bloomfield	40,000
Brush & Company, Limited	Toronto	40,000
Brereton & Steward, Limited	Toronto	100,000

List of Companies incorporated for the year 1912, ending October 31st.—*Continued.*

Name.	Address.	Capital.
		$
The Berlin Trunk and Bag Company, Limited	Berlin	100,000
Buffalo Corundum Company, Limited	Fort Erie	40,000
Bulgarian National Printing House, Limited	Toronto	15,000
Bigelows, Limited	Trenton	40,000
Braemar Realty Company, Limited	Hamilton	40,000
The Building and Construction Company, Limited	Toronto	40,000
Buffalo Ontario Smelting and Refining Company, Ltd.	Toronto	40,000
Builders' and Contractors' Supplies, Limited	Toronto	40,000
The Brunswick-Balke Collender Company, of Canada, Ltd.	Toronto	700,000
The Balmoral Land and Development Company, Limited	Toronto	200,000
The Berlin Soap and Specialty Company, Limited	Berlin	40,000
The Bolton Realty Company, Limited	Bolton	40,000
Best Knit, Limited	Brampton	50,000
The Butt Improvement Company, Limited	Hamilton	10,000
Barry & Company, Limited	Trenton	40,000
Bungalow Construction Company, Limited	Toronto	10,000
The Brockville Investors, Limited	Brockville	64,000
The Border City Athletic Association, Limited	Windsor	40,000
Bowden, Frank A., & Sons, Limited	Toronto	50,000
Brandon's Oil and Gas Company, Limited	Milton	100,000
Baker Motor Vehicle Company of Canada, Limited	Walkerville	100,000
The Bear Track Mining Co., of Porcupine, Ontario, Ltd.	Haileybury	2,000,000
The British Empire Land Company of Canada, Limited	Toronto	50,000
Barnard, H., Company, Limited	Hamilton	40,000
Barber Paper and Coating Mills, Limited	Toronto	1,500,000
The Bennewitz Manufacturing Company, Limited	Stratford	40,000
Barretts Dairy Company, Limited	Toronto	40,000
Bonivean Realty Company, Limited	Toronto	42,000
The Big Four Brick Company, Limited	Toronto	150,000
Boulter, H. C., Company, Limited	Toronto	100,000
Buffalo-Ontario Lead Company, Limited	Kingston	100,000
The Bayview Boulevard, Limited	Hamilton	1,000,000
The Bowden Machine Company, Limited	Toronto	40,000
The Blyth Flax Company, Limited	Blyth	10,000
The Broadview Hotel Company, Limited	Toronto	100,000
Brighton Laundry, Limited	Toronto	50,000
Business Realty, Limited	Hamilton	40,000
Bassano-Alberta Land Corporation, Limited	Toronto	100,000
Beachville White Lime Company, Limited	Beachville	40,000
The Bartonville Pressed Brick Company, Limited	Hamilton	40,000
Burleigh Ranching Company, Limited	Toronto	50,000
British Land Company, Limited	Toronto	40,000
Bellevue Realty, Limited	Ottawa	100,000
The Byers, Limited	Toronto	40,000
British Woollen Mills Company, Limited	Toronto	20,000
Bishopric Wall-Board Company, Limited	Ottawa	150,000
Blakeslee, G. S., & Company, Limited	Sarnia	40,000
Beaver Auxiliary Mines, Limited	Toronto	500,000
Bulldog Tire Company, Limited	Toronto	300,000
Buffalo and Dunnville Oil and Gas Company, Limited	Dunnville	100,000
Beulah Land Company, Limited	Fort Erie	40,000
The Bouzan Mines, Limited	Haileybury	2,000,000
Bankers' Securities Company, Limited	Toronto	10,000
Bankers' Bond Company, Limited	Toronto	1,000,000
Begin Boyce, Limited	Fort William	40,000
Bowmanville Building Company, Limited	Bowmanville	40,000

List of Companies incorporated for the year 1912, ending October 31st.—*Continued.*

Name.		Capital.
C.		$
The Canadian Two-in-One Auto Company, Limited	Windsor	200,000
Commercial Construction, Limited	Sudbury	40,000
Canadian Summer Resorts, Limited	Toronto	40,000
Century Land Company, Limited	Toronto	40,000
Canadian Holdings, Limited	Toronto	20,000
The Corrugated Paper Company, Limited	Toronto	40,000
Conduits Company, Limited	Toronto	1,000,000
Christophers, Limited	Hamilton	40,000
Canadian Sirocco Company, Limited	Windsor	100,000
Canada Hair Cloth Company, Limited	St. Catharines	50,000
The Canadian Echo Company, Limited	Wiarton	10,000
Carson, Hugh, Company, Limited	Ottawa	500,000
Canadian Mining and Finance Company, Limited	Toronto	500,000
Chantler-Moss, Limited	Toronto	40,000
Chalkley & Son, Limited	Toronto	40,000
The Canadian Ornamental & Wood Carving Co., Ltd.	Uxbridge	40,000
The Cloisonne and Art Glass, Limited	Berlin	40,000
Consolidated Ophir Mines, Limited	Toronto	5,000,000
City Estates of Canada, Limited	Toronto	1,550,000
Cartwright Gold Fields, Limited	Toronto	1,000,000
Crottie's, Limited	Toronto	40,000
The Colonial Knitting Company, Limited	Guelph	100,000
Canada Representatives, Limited	Toronto	40,000
Canadian Gas Company, Limited	Windsor	1,000,000
Canadian Underwriters, Limited	Toronto	50,000
Cafeterias, Limited	Toronto	40,000
The Clayson Co., Limited	Toronto	40,000
The Cornwall Foundry Company, Limited	Cornwall	60,000
Central Investments, Limited	Toronto	40,000
Carmichael-Harvie Company, Limited	Orillia	40,000
Canada Story Press, Limited	Toronto	50,000
The Canadian Kent Mill Company, Limited	Hamilton	10,000
Campbell Brothers, Limited	Port Arthur	40,000
The Consolidated Insurance Agencies, Limited	Toronto	40,000
Canadian Freehold Land Company, Limited	Toronto	40,000
Canadian Vending Machine Company, Limited	Toronto	600,000
Citizens' Coal and Forwarding Company, Limited	Gananoque	40,000
The Clachan Co-operative Hall Company, Limited	Clachan	5,000
Cutler, J. E., Limited	Welland	40,000
Construction Service Company, Limited	Guelph	40,000
Canadian Finance and Securities, Limited	Toronto	50,000
Citizens' Home Construction, Limited	Toronto	40,000
Canadian Neel Armstrong, Limited	Orillia	100,000
Carlyle & Beck, Limited	Toronto	40,000
Commercial Trunk Company, Limited	London	25,000
Caledonia Land Company, Limited	Toronto	40,000
Canada Amalgamated Nickel and Copper Co., Ltd.	Toronto	2,000,000
Cull Gordon, Limited	Toronto	40,000
Canadian Fuel-Savers Company, Limited	Berlin	40,000
The Commercial Land Company, Limited	Toronto	40,000
Canadian Furnace Company, Limited	Port Colborne	500,000
The Cobden Milling Company, Limited	Cobden	40,000
Canada Veteran Gold Mines, Limited	Toronto	1,000,000
Canadian National Investors, Limited	Toronto	50,000
The Canada Orchards, Limited	Toronto	250,000
The Colonial Theatre Company, Limited	Ottawa	40,000
Casey Kismet Mining Company, Limited	Toronto	40,000
The Cold Creek Trout Club, Limited	Toronto	40,000
Clapp, Littlejohn, Limited	Dutton	50,000
The Canadian St. Mary's Company, of Chatham, Limited	Chatham	200,000

List of Companies incorporated for the year 1912, ending October 31st.—*Continued.*

Name.	Address.	Capital.
		$
Carrie, R., Storage, Limited	Toronto	30,000
The Chatham Club, Limited	Chatham	2,500
The Capital Wire Cloth and Manufacturing Co., Ltd.	Ottawa	40,000
The Canada Fine Art Company, Limited	Toronto	40,000
Canadian Real Estate Exchange, Limited	Toronto	50,000
Canada Saddlery Hardware and Steel Goods, Ltd.	Walkerton	30,000
The Canadian Dust-Proof Weather Strip Co., Ltd.	Walkerville	50,000
The Commercial Basis Tire Company, Limited	Toronto	100,000
The Church Printing and Supply Company, Limited	Toronto	40,000
Canadian Ohio Motor Car Company, Limited	Colborne	400,000
Crawford's, Limited	Tilbury	100,000
Canadian Mining Exchange, Limited	Toronto	50,000
The Canadian Morehead Manufacturing Company, Limited	Woodstock	25,000
Commonwealth Realty Company, Limited	Hamilton	40,000
Connaught Realty, Limited	Toronto	40,000
Canal Zone Realty, Limited	Welland	100,000
The Continental Box Board Company, Limited	Toronto	500,000
Canada Acme Metal Weather Strip Company, Limited	Toronto	75,000
Canadian Mining and Exploration Company, Limited	Toronto	5,000,000
Canadian Marble Company, Limited	Toronto	100,000
The Canada Brick and Fireproofing Company, Limited	Toronto	500,000
Canadian Cataract Rubber Company, Limited	Welland	250,000
Consecon Canning Company, Limited	Consecon	40,000
Clyde, Limited	Lanark	40,000
Canada Tea Company, Limited	Toronto	425,000
Crabtree-Trowbridge, Limited	Ottawa	40,000
The Canadian Frost and Winchester Company, Limited	Windsor	40,000
Canadian Bond Company, Limited	Toronto	1,000,000
The Canadian Jewett Refrigerator Company, Limited	Bridgeburg	50,000
The Chatham Theatre Company, Limited	Chatham	40,000
Canadian Building and Land Association, Limited	Toronto	40,000
Canadian Tonitives Company, Limited	Bridgeburg	40,000
The Canadian-Detroit Realty Company, Limited	Brockville	40,000
Canada Moving Pictures, Limited	Toronto	40,000
Carrick, J. J., Company, Limited	Port Arthur	100,000
Consolidated Motors, Limited	Toronto	40,000
The Canadian Tool Steel Company, Limited	Toronto	600,000
Central Garage and Supply Company, Limited	Toronto	150,000
The Chatham Land Company, Limited	Toronto	40,000
Cochrane Telephone Company, Limited	Toronto	50,000
The Coyne Lumbering Company, Limited	Schreiber	40,000
The Cleveland Trinidad Paving Company, of Ontario, Ltd.	Sault Ste. Marie	50,000
The Canadian Rat-Corn Company, Limited	Toronto	40,000
The Catholic Hospital Building Company, Limited	Chatham	40,000
The Chippawayne, Limited	Chippewa	40,000
The Canadian Roll and Machine Company, Limited	Hamilton	500,000
The Consumers' Co-operative Society, Limited	London	40,000
Crescentwood, Limited	Galt	24,000
The Chadwick Brass Company, Limited	Hamilton	800,000
The Canadian Manufacturers' Agency, Limited	Toronto	20,000
Cosbie, R. H., Limited	Toronto	40,000
The Collie Cockerill Manufacturing Company, Limited	Toronto	100,000
City Construction Company, Limited	Toronto	40,000
The Canadian Breweries Supply Company, Limited	Toronto	40,000
Central Corners, Limited	Toronto	260,000
City Investments, Limited	Toronto	100,000
Central Holdings, Limited	Toronto	100,000

List of Companies incorporated for the year 1912, ending October 31st.—*Continued.*

Name.	Address.	Capital.
D.		
The Digby Dome Mines Company, Limited	Brantford	1,500,000
Dowler, R. H. & J., Limited	St. Thomas	100,000
The Dominion Waste Manufacturing Company, Limited	Toronto	50,000
Dominion Porcupine Mines, Limited	Toronto	3,000,000
Deere, John, Plow Company, of Welland, Limited	Welland	250,000
Duluth-Shining Tree Company, Limited	Toronto	300,000
Dresses, Limited	Toronto	40,000
Dancy, H. N., & Son, Limited	Toronto	50,000
Differential Axles, Limited	Toronto	2,000,000
Darling, Andrew, Company, Limited	Toronto	250,000
Dunvegan Heights Land Company, Limited	Toronto	160,000
Dominion Underwriters Syndicate, Limited	Toronto	250,000
Deeth & Sons, Limited	Toronto	75,000
Dane Mining Company, Limited	Haileybury	500,000
Dominion Park Company, Limited	Windsor	10,000
Dickinson's Dye Works, Limited	Toronto	40,000
Danforth Heights, Limited	Toronto	40,000
Dominion Grain Company, Limited	Toronto	25,000
Dundas Linen Mills Company, Limited	Iroquois	100,000
Dominion Sweets Company, Limited	Toronto	40,000
Doncrest Realty Company, Limited	Toronto	40,000
Dominion Ornamental Iron Company, Limited	Toronto	40,000
Dunford Elk Shoes, Limited	Stratford	40,000
The Doric Portland Cement Company, Limited	Owen Sound	500,000
The Dyas, W. J., Publishing Company, Limited	Toronto	40,000
The Dunn Natural Gas Company, Limited	Dunnville	40,000
The Doty Engine and Boiler Company, Limited	Goderich	40,000
The Declacomania Company, of Canada, Limited	Toronto	40,000
Dominion Button Manufacturers, Limited	Berlin	100,000
Dominion Machine and Tool Company, Limited	Toronto	40,000
Dominion Construction Company, Limited	Toronto	150,000
Dominion Abattoir, Limited	London	150,000
The Dominion Screw Company, Limited	Hamilton	300,000
The Dixie Brick Company, Limited	Toronto	90,000
Deer Lake Gold and Silver Mines, Limited	North Bay	500,000
Davidge & Lunn Builders, Limited	Toronto	40,000
Dominion Reduction Company, Limited	Toronto	400,000
Doon Twines, Limited	Doon	150,000
Dominion Leather Goods Company, Limited	Toronto	40,000
Dominion Theatres, Limited	Hamilton	150,000
Dominion School of Nursing and Massage, Limited	Toronto	40,000
Dominion Roofing Manufacturing Company, Limited	Toronto	60,000
The Donnacona Paper Company, Limited	Toronto	3,500,000
The De Long Hook and Eye Company, of Canada, Limited	St. Mary's	50,000
Dome Lake Company, Limited	Toronto	500,000
Dominion Specialties, Limited	Toronto	50,000
Dack, R., & Sons, Limited	Toronto	100,000
Durham Duplex Razor Company, Limited	Toronto	40,000
Dominion Printing and Loose Leaf Company, Limited	Ottawa	50,000
E.		
Ecclestone & Bates, Limited	Bracebridge	20,000
Elliott, Sherring & Co., Limited	Toronto	40,000
Elgin Oil and Gas Company, Limited	St. Thomas	200,000
Edwards, James, & Company, Limited	Toronto	50,000
Eastview Land Company, Limited	Ottawa	40,000
The Eyer Lumber Company, Limited	Toronto	200,000
Elizabeth Gold Mines, Limited	Toronto	500,000
East and West, Limited	Toronto	50,000
The Equitable Land Company, Limited	Toronto	100,000

List of Companies incorporated for the year 1912, ending October 31st.—*Continued.*

Name.	Address.	Capital.
		$
Ernst Bros. Company, Limited	Mount Forest	40,000
Edgley's, Limited	Toronto	40,000
Eastern Realty Company, Limited	Berlin	40,000
Espey-Moose Agencies, Limited	Toronto	40,000
Etobicoke Land Company	Toronto	100,000
Economy Specialties, Limited	Toronto	40,000
Eastern Securities, Limited	Toronto	250,000
Electrical Contractors Supply Corporation, Limited	Toronto	40,000
Earlscourt Realty Company, Limited	Ottawa	50,000
The Eganville Pulp Milling & Manufacturing Co., Ltd.	Eganville	225,000
The Eastern Investors, Limited	Kingston	64,000
The Escondido Planting Company, Limited	Toronto	300,000
The Elmwood Land Company, Limited	Toronto	40,000
Electric Company, of Canada, Limited	Toronto	1,000,000
The Empress Land Company, Limited	Toronto	100,000
Evans, Geo. A., Limited	Toronto	40,000
Exclusive Estates, Limited	Toronto	40,000
The Elliot Woodworker, Limited	Toronto	40,000
Exmouth Realty Company, Limited	Toronto	250,000
The Emo Iron Mine and Development Company, Limited	Emo	200,000
Electrical Utilities Company, Limited	Toronto	50,000
Expanse Lumber Company, Limited	North Bay	100,000
Elk Lake Holding Company, Limited	Toronto	40,000
Elgin Gardens, Limited	Toronto	100,000
East Melfort Investors, Limited	Toronto	36,000
Farmer Brothers, Limited	Toronto	40,000
Fairmont Property Company, Limited	Ottawa	40,000
Flanders Electric Vehicles, of Canada, Limited	Walkerville	40,000
Federal Typewriter Company, Limited	Ottawa	40,000
Florida Colonization Company, Limited	Berlin	150,000
Factory Service Company, Limited	Toronto	40,000
Fretz, Limited	Hamilton	150,000
Flempol Manufacturing Company, Limited	Parry Sound	100,000
Freemans, Limited	Toronto	40,000
Fire Protection Equipment Company, Limited	Toronto	50,000
Forest City Furniture Company, Limited	London	40,000
Factory Service Company, Limited	Toronto	40,000
Fraser Silent Flush Company, Limited	Toronto	200,000
Foxboro' Canning Company, Limited	Foxboro	40,000
Frazee Cartage and Storage Company, Limited	Toronto	300,000
The Farmers' Co-operative Society, of St. Charles, Limited	St. Charles	10,000
The Finnish Co-operative Merchants, of Sault Ste. Marie, Ltd.	Sault Ste. Marie	40,000
Fisher Body Company, of Canada, Limited	Sandwich, East	150,000
The Farmers' Co-operative Co., of Blezard Valley, Ont., Ltd.	Blezard Valley	10,000
Fort William Cold Storage Company, Limited	Fort William	100,000
The Fuel Economizer Company, Limited	Hamilton	25,000
Fowke Bros., Limited	Oshawa	40,000
Fort William Commercial Chambers, Limited	Fort William	500,000
The Fort William Starch Company, Limited	Fort William	600,000
Fraser, G. E., Sons, Limited	Picton	75,000
The Fuel-Saving Company, Limited	Toronto	250,000
Forsyth Pulverizer, Limited	Toronto	250,000
Fleur de Lis Silver Mining Company, Limited	North Bay	1,500,000
Fradette, Thomson & McKay, Limited	Toronto	50,000
Fraser-Bay Iron Company, Limited	Sault Ste. Marie	1,000,000
The Forest Basket Company, Limited	Forest	25,000

List of Companies incorporated for the year 1912, ending October 31st.—*Continued.*

Name.	Address.	Capital.
G.		$
Gibson House, Limited	Toronto	40,000
Gipe-Hazard Store Service Company, Limited	Toronto	80,000
Gold Crest Mines Company, Limited	Toronto	2,000,000
The Grimsby Soap Works, Limited	Grimsby	50,000
Galt Opera House Company, Limited	Galt	40,000
The Grimsby Recreation Company, Limited	Grimsby	40,000
The Graham Land Company, Limited	Hamilton	10,000
Grassick Brothers, Limited	Toronto	40,000
Gasolectric Motors, Limited	St. Thomas	1,000,000
Graydon, McCulloch Company, Limited	Toronto	40,000
Guelph Realty Company, Limited	Guelph	50,000
Garden City Realty Company, Limited	St. Catharines	50,000
Golfdale Land Company, Limited	Toronto	100,000
Gold Eagle Mines, Limited	Haileybury	1,000,000
Guelph Estates, Limited	Guelph	40,000
Graphic Arts Building, Limited	Toronto	200,000
The Grierson, W. E., Company, Limited	Toronto	50,000
Gun Flint Iron Company, Limited	Sarnia	100,000
Gibson Electrics, Limited	Toronto	40,000
The Gibb Company, Limited	Hamilton	40,000
The Goderich Furniture Company, Limited	Goderich	150,000
Gordon Porcupine Mines, Limited	Toronto	40,000
Greenfield Conduit Company, Limited	Toronto	100,000
The Gallagher Lime and Stone Company, Limited	Hamilton	50,000
General Natural Gas and Oil Company, Limited	Windsor	100,000
Grafton Canning Company, Limited	Grafton	40,000
Grandview Realty Company, Limited	Toronto	40,000
Galbraith & Company, Limited	Owen Sound	75,000
The Glengarry Lumber Company, Limited	Berlin	25,000
Glenavon Land Company, Limited	Toronto	100,000
The Guelph County Club, Limited	Guelph	30,000
Galt Reporter, Limited	Galt	100,000
Graduates, Limited	Toronto	40,000
Grimsby Co-operative, Limited	Grimsby	40,000
Glen Mawr Girls' School, of Toronto, Limited	Toronto	40,000
The Galt Machine Screw Company, Limited	Galt	40,000
The Gray-Harvey Company, Limited	Ottawa	50,000
Garden Springs, Limited	Toronto	75,000
The Galt Securities Company, Limited	Toronto	72,000
The Granite Brick and Tile Company, Limited	Toronto	200,000
The Great Gulf Lands, Limited	Kingston	500,000
Gamble-Robinson, Fruit Company, Limited	Sault Ste. Marie	40,000
The Grand Opera House Company, of Sudbury, Limited	Sudbury	50,000
Grantham Realty Company, Limited	Toronto	40,000
The Guelph Brick and Tile Company, Limited	Guelph	50,000
Griffin Coal and Ice Company, Limited	St. Thomas	40,000
Green-Guernsey, Limited	Hamilton	25,000
Georgian Bay Elevator Company, Limited	Meaford	100,000
The Gray Manufacturing and Machine Company, Limited	Toronto	24,000
General Mines, Limited	Toronto	1,000,000
Gillespie, W. Percy, Company, Limited	Toronto	250,000
H.		
Herald Press, Limited	Walkerville	40,000
The Hamilton Gas Mantle Company, Limited	Hamilton	40,000
Harrison, Joseph, Limited	Toronto	40,000
The Harding Motor Car Company, Limited	London	100,000
Halliday & Sproule, Limited	Ottawa	40,000
Hamilton City and Suburban Homes, Limited	Hamilton	100,000
Halliday, F. G., Limited	Toronto	40,000

List of Companies incorporated for the year 1912, ending October 31st.—*Continued.*

Name.	Address.	Capital.
		$
Hales-Rutherford Company, Limited	Toronto	40,000
Hotel Cecil Company, Limited	Hamilton	100,000
Hydraulic Vacuum Cleaner Company, Limited	Toronto	50,000
Home Suite Homes, Limited	Toronto	100,000
The Hartwick Fur Company, Limited	Toronto	40,000
Hall, John H., & Sons, Limited	Brantford	100,000
Harvey Knitting Company, Limited	Woodstock	1,500,000
Huronian Exploration Company, Limited	New Liskeard	50,000
Holtby Bros., Limited	Toronto	40,000
Home City Estates, Limited	Toronto	600,000
Hotel Kingston, Limited	Kingston	210,000
The Highway Improvement Company, Limited	Niagara Falls	50,000
Hynes, W. J., Limited	Toronto	50,000
Hart Porcupine Mines, Limited	Toronto	40,000
The Heather Rink Company, of Agincourt, Limited	Agincourt	40,000
The High Grade Oil Company, Limited	Wallaceburg	25,000
The Heather Bowling Club, Limited	Brantford	40,000
Hamilton Pure Food Process Company, Limited	Hamilton	200,000
The Hurley Printing Company, Limited	Brantford	60,000
Hamilton Importing Company, Limited	Hamilton	40,000
Home Land Company, Limited	Toronto	40,000
The Hayes Development Company, Limited	Toronto	40,000
Hub Realty Company, Limited	Toronto	40,000
Housberger & Company, Limited	Toronto	50,000
The Hood Sandham Company, Limited	Toronto	40,000
The Humbervale Lands, Limited	Toronto	500 000
The Hamilton Suburban Land Company, Limited	Toronto	100,000
Hillcrest Land Company, Limited	Toronto	40,000
The Hamilton Trolley Wheel Company, Limited	Hamilton	60,000
The Hackett Motor Company, Limited	Oshawa	350,000
Highlands, Limited	Toronto	40,000
The Hamilton Knights of Columbus Home Association, Ltd.	Hamilton	40,000
Haight & Dickson Lumber Company, Limited	Sudbury	40,000
Hill-Leonard Engineering & Construction Co., Ltd.	Toronto	50,000
Hayden Gold Mines, Limited	Toronto	2,000,000
Hay & Company, Limited	Woodstock	200,000
The Harriston Casket Company, Limited	Harriston	40,000
Hotel Frontenac Company, Limited	Kingston	40,000
Hamilton Sons of England Hall, Limited	Hamilton	75,000
The Humber Beach Hotel Company, Limited	Toronto	100,000
The Humbervale Cemetery Company, Limited	Toronto	100,000
Harris, W. T., Company, Limited	Owen Sound	200 000
Hallam, John, Limited	Toronto	500,000
I.		
Inglewood, Limited	Hamilton	120.000
International Lifeboat Company, Limited	Toronto	1,000,000
International Permanent Investments, Limited	Toronto	40,000
Islington Realty Company, Limited	Toronto	40,000
The Ivy-Thornton Telephone Company, Limited	Ivy	10,000
The Island Estates, Limited	Toronto	100 000
Inter-Cities Land Company, Limited	Port Arthur	250.000
Irving Electrical Supply Company, Limited	Toronto	50,000
International Contractors, Limited	Toronto	40.000
The Inter-Cities Quarries Company, Limited	Port Arthur	500 000
Imperial Export and Import Company, Limited	Toronto	1 000,000
The Ideal Mat Company, Limited	Windsor	100.000
The International Patent Syndicate, Limited	Toronto	50,000
Inter-Provincial Concrete Construction Co., Ltd.	Toronto	40,000

List of Companies incorporated for the year 1912, ending October 31st.—*Continued.*

Name.	Address.	Capital.
		$
The Ionic Cement and Stone Company, Limited	Owen Sound	40,000
International Malleable Iron Company, Limited	Guelph	
International Hygienic Corset & Accessories Assn., Ltd.	Toronto	50,000
Italian Provision Company, Limited	Sault Ste. Marie	40,000
J.		
Jackson's, Limited	St. Thomas	40,000
Jury & Lovell, Limited	Oshawa	40,000
The Jackson Car Company, of Ontario, Limited	Toronto	40,000
Johnston, Donald F., Company, Limited	Toronto	50,000
Johnston-Sutherland, Limited	Toronto	100,000
Johnston & Boon, Limited	Fort William	200,000
Jack Canuck Publishing Company, Limited	Toronto	60,000
Jefferson Glass Company, Limited	Toronto	200,000
K.		
Krinkle Company, Windsor, Ontario, Canada, Limited	Windsor	5,000
The King Quicksilver Mining Company, Limited	Toronto	1,000,000
Keystone Lands, Limited	Toronto	40,000
Kilby, W. H., Limited	Toronto	40,000
Kingston Mica and Phosphate Company, Limited	Kingston	500,000
The Kyro-Hellberg Company, Limited	Port Arthur	60,000
The Kinnell Manufacturing Company, Limited	Morrisburg	50,000
The Knight Manufacturing and Lumber Company, Limited	Meaford	40,000
The Keene Dairy Company, Limited	Keene	10,000
Knowlton, W. H., Sons & Co., Limited	Toronto	100,000
Kensington Gardens, Limited	Toronto	40,000
Kenroy Gold Mines, Limited	Toronto	1,000,000
The Kingston Ice Company, Limited	Kingston	25,000
Karns and Co., Limited	Brantford	100,000
Kingston Brick and Tile Company, Limited	Kingston	100,000
Kawin, Charles C., Company, Limited	Toronto	40,000
King George Temperance Hotel Company, Limited	Comber	8,000
The Killarney Gold Mining Company, Limited	South Porcupine	2,000,000
Kenderdine Realty Company, Limited	Toronto	40,000
The Kenora Golden Triumph Mines, Limited	Toronto	102,000
Kensington Annex, Limited	Toronto	70,000
Keelesdale Land Company, Limited	Toronto	100,000
Kingsway, Limited	Toronto	6,000,000
Kempenfeldt Land Company, Limited	Toronto	100,000
K. & S. Auto Tire Company, Limited	Toronto	40,000
The Kline Manufacturing Company, Limited	Beeton	20,000
Keeton Motors, Limited	Brantford	200,000
Keiths, Limited	Toronto	150,000
The Kitchen Overall and Shirt Company, Limited	Brantford	40,000
Klotz, E. W., Limited	Toronto	40,000
Kingston Realties, Limited	Kingston	250,000
Kuhn Merrill, Limited	Ottawa	40,000
Kieselguhr Company of Canada, Limited	Toronto	40,000
Keswick Gardens, Limited	Hamilton	40,000
Kloepfer, C., Limited	Guelph	250,000
L.		
Lake Commerce, Limited	Toronto	100,000
London and Canadian Securities, Limited	Toronto	500,000
The Land Corporation of Ontario, Limited	Toronto	2,500,000
Lourdes Co-operative Hockey Club, Limited	Toronto	1,000

List of Companies incorporated for the year 1912, ending October 31st.—*Continued.*

Name.	Address.	Capital.
		$
The Langmuir Nighthawk Lake Gold Mines, Limited	Toronto	50,000
Land Owners, Limited	Toronto	40,000
Lickley, H. M., Limited	Gravenhurst	100,000
Lockhart, R., & Company, Limited	Fort Frances	100,000
Land Improvements, Limited	Toronto	300,000
Lake Shore Construction Company, Limited	Toronto	40,000
Lenox Gloves, Limited	Walkerville	30,000
The Lake Superior Basin Mining Co., Limited	Fort Erie	1,000,000
Litho-Print, Limited	Toronto	100,000
The Labor News Publishing Company, Limited	Hamilton	5,000
Lindsay-Bailey Lumber Company, Limited	Toronto	50,000
Lang, H. H., Limited	Toronto	40,000
The Lawrence Cloak and Suit Company, Limited	Toronto	40,000
Le Voi, L. C., Company, Limited	Toronto	40,000
The Lakeview Land Company, Limited	Hamilton	40,000
The Lewis Construction Company, Limited	Toronto	40,000
Loudon Works, Limited	Fort Erie	20,000
The Longeway Supply Company, Limited	Midland	10,000
Ledger Realty, Limited	Toronto	100,000
The Lake Simcoe Navigation Company, Limited	Toronto	40,000
Laurentian Realty Company, Limited	Ottawa	200,000
Lakeside Land Company, Limited	Toronto	40,000
Long Branch Lawn Bowling Club, Limited	Toronto	10,000
The John Lewis Company, Limited	Belleville	30,000
The Lowndes Company, Limited	Toronto	1,000,000
Lundy Company, Limited	Niagara Falls	40,000
Libby, McNeill & Libby of Canada, Limited	Toronto	10,000
Lansdowne Bowling and Athletic Club, Limited	Toronto	10,000
Lapierre Realty, Limited	Ottawa	40,000
Legg Brothers, Limited	Toronto	40,000
Lakeside Lumber Company, Limited	Port Arthur	100,000
Lorraine-Trout Lake Mines, Limited	Toronto	1,800,000
M. and Mc.		
MacKay, Paulin, Construction Company, Limited	Hamilton	40,000
Mountjoy Lumber Company, Limited	Toronto	100,000
Martin Porcupine Mines, Limited	Toronto	2,000,000
Mimico Bowling and Athletic Club, Limited	Mimico	40,000
Macdonald Contracting Company, Limited	Toronto	40,000
Metropolitan Securities Corporation, Limited	Toronto	50,000
Macey Sign Company, Limited	Toronto	40,000
Manufacturers and Importers, Limited	Toronto	40,000
McArthur-Richey-Trimble, Limited	Toronto	40,000
Mahaffy Brothers, Limited	Bracebridge	100,000
MacLean, Hugh C., Limited	Toronto	500,000
Major Mining Company, Limited	Windsor	25,000
Marchment, Limited	Toronto	40,000
Maples, Limited	Toronto	40,000
McLuckie, Maxwell & Company, Limited	Toronto	40,000
Miller Lake Silver-Lodes Mining Company, Limited	New Liskeard	60,000
McArthur, C. F., Limited	Kenmore	50,000
McKendrick, Nicholson & Company, Limited	Toronto	50,000
Mackenzie, Seyler, Limited	Toronto	40,000
The Mississippi Telephone Company, Limited	Lanark	3,400
The Mattagami Company, Limited	Mattagami Heights	54,000
Mack & Company, Limited	Hamilton	40,000
The Morrey Publishing Company, Limited	Ingersoll	40,000
The Meaford Land and Fruit Company, Limited	Meaford	100,000

List of Companies incorporated for the year 1912, ending October 31st.—*Continued.*

Name.	Address.	Capital.
		$
McDonald, Kenneth, & Sons, Limited	Ottawa	100,000
MacKay, G. L., Limited	Toronto	50,000
Mather, Luery Company, Limited	Stirling	40,000
The Marconi Club, Limited	London	20,000
The O. P. McGregor Paper Company, Limited	Toronto	40,000
Moose Jaw and Western Canada Investments, Limited	Galt	65,000
Mueller, H., Mfg. Company, Limited	Sarnia	300,000
Metropolitan Realty Company, Limited	Toronto	40,000
Michaud and Levesque, Limited	Sturgeon Falls	100,000
McLean, Szeliski and Stone, Limited	Toronto	40,000
Merchandise Warehouse, Limited	Toronto	40,000
Merchant Tailors, Limited	Toronto	40,000
Macdonald, D. E., and Bros., Limited	Guelph	150,000
Marshall-Davis, Limited	Dunnville	50,000
McAllisters, Limited	Berlin	40,000
Marks and Price, Limited	Toronto	40,000
Martin & Smith Company, Limited	Toronto	40,000
Maple Leaf Baseball Club, Limited	Guelph	5,000
Maple Leaf Butter and Cheese Company, Limited	Downeyville	2,000
Montreal Shawinigan Park Company, Limited	Toronto	150,000
The Monarch Knitting Company, Limited	Dunnville	2,025,000
The McRae Manufacturing Company, Limited	Port Arthur	100,000
Meaford Brick Company, Limited	Toronto	500,000
Mitchell Crusher Manufacturing Company, Limited	Toronto	50,000
Middle West Securities Corporation, Limited	Toronto	50,000
Melbourne, Limited	Toronto	100,000
Millman, P. M., and Company, Limited	London	15,000
McCrae, L. R., Limited	Toronto	200,000
Massey Estates, Limited	Toronto	50,000
McKinney Lumber Company, Limited	Woodstock	40,000
The Muskoka, Victoria and Haliburton Telephone Co., Ltd.	Uffington	2,000
McLaughlin, J. J., Limited	Toronto	1,000,000
The Moira River Mining Company, Limited	Tweed	1,000,000
The Macnamara Company, Limited	Chapleau	40,000
Moore's Limited	Toronto	40,000
The MacBride Press, Limited	Brantford	40,000
Merchants Realty Company, Limited	Toronto	40,000
The Monarch Hotel Company, Limited	Fort Frances	40,000
Morwoods, Limited	Welland	40,000
McNabb, J. C., & Co., Limited	Cobalt	40,000
Muskoka Summer Resorts, Limited	Toronto	40,000
The Musgrave Thermo-alarm Company, Limited	Toronto	100,000
Mayfair Investments, Limited	Galt	400,000
McAlpine Tobacco Company, Limited	Toronto	100,000
Motion Plays, Limited	Toronto	100,000
The Mount Dennis Brick Company, Limited	Toronto	200,000
The Minaki Boat and Supply Company, Limited	Minaki	20,000
McHardy, Limited	Toronto	60,000
Monarch Construction and Realty Company, Limited	Toronto	40,000
N.		
North Shore Contracting Company, Limited	Sault Ste. Marie	500,000
Neelys, Limited	Toronto	100,000
Nokomis Oil and Gas Company, Limited	Paris	90,000
Nasmiths, Limited	Toronto	1,000,000
Niles, W. P., Limited	Wellington	100,000
Norfolk Specialty Farms, Limited	Toronto	40,000
Niagara Brand Spray Company, Limited	Burlington	100,000
The Niagara Falls Club, Limited	Niagara Falls	25,000

List of Companies incorporated for the year 1912, ending October 31st.—*Continued.*

Name.	Address.	Capital.
Name.		$
The Northern Bolt and Screw Company, Limited	Owen Sound	200,000
Nepean Realty, Limited	Ottawa	100,000
Napanee Iron Works, Limited	Napanee	200,000
North Bay Theatre Company, Limited	North Bay	50,000
National Cone and Candy Company, Limited	Toronto	40,000
Neal Institute of Ottawa, Limited	Ottawa	40,000
Norfolk Canning Company, Limited	Vittoria	100,000
The New Age Company, Limited	Hamilton	40,000
Northern Crane Works, Limited	Walkerville	100,000
North Shore Supply Company, Limited	Fort William	50,000
National Sand and Material Company, Limited	Welland	40,000
National Auto Body Company, Limited	Windsor	150,000
Northern Investments, Limited	North Bay	20,000
North Bay Land Company, Limited	Toronto	50,000
Northern Canada Prospecting Company, Limited	Toronto	40,000
National Equipment Company, Limited	Toronto	100,000
Niagara Natural Gas and Fuel Company, Limited	Sherkston	40,000
The National Advertograph Company, Limited	Toronto	10,000
Northern Canada Power Company, Limited	Toronto	3,000,000
The Naylor-Osborne Company, Limited	Essex	60,000
Northview Land Company, Limited	Toronto	50,000
The Northern Lumber Mills, Limited	North Cobalt	40,000
The Norfolk Golf and Country Club, Limited	Simcoe	25,000
The New Ontario Oil and Gas Company, Limited	Sheguindah	45,000
National Underwriters, Limited	Toronto	40,000
Northern Planing Mills, Limited	North Bay	75,000
National Land and Investments, Limited	Toronto	100,000
The National Concrete Manufacturing Company, Limited	Lindsay	75,000
Neilson, William, Limited	Toronto	1,000,000
National Bookkeeping Machines, Limited	Toronto	250,000
New Ontario Colonization Company, Limited	Toronto	1,250,000
New York Graphite Company, Limited	Toronto	1,000,000
The National Sporting Goods Company, Limited	Toronto	40,000
Narrow Fabrics, Limited	Galt	40,000
The Noble Manufacturing Company, Limited	St. Thomas	100,000
Northern Ontario Colonization Company, Limited	Toronto	40,000
National Dental Company, Limited	Toronto	200,000
Northcliffe Land Development Company, Limited	Toronto	200,000
The Northey-Simmen Signal Company, Limited	Toronto	5,200,000
Nevilles, Limited	Fort William	40,000
O.		
The Ontario Equipment Company, Limited	Ottawa	100,000
The Owen Sound Specialty Company, Limited	Owen Sound	40,000
Ontario Pulp and Paper Company, Limited	Toronto	3,000,000
Ontario Lime Company, Limited	Toronto	500,000
Oliver, Reid & Company, Limited	Toronto	40,000
The Ontario Rock Company, Limited	Toronto	40,000
Otter-Blanche Creek Improvement Company, Limited	Ottawa	10,000
Ontario Land and Agency Company, Limited	Toronto	40,000
The Ontario Paper Company, Limited	Toronto	10,000
Ontario Calvert Porcupine Mining & Reduction Co., Ltd.	Toronto	40,000
The Oshawa Development Company, Limited	Toronto	50,000
Outing Knitted Wear, Limited	Toronto	40,000
The Ontario Realty and Security Company, Limited	Brantford	100,000
The Oakland Land Company, Limited	Ottawa	200,000
The Oil Springs Oil and Gas Company, Limited	Oil Springs	40,000
The Ottawa Motor Boat Club, Limited	Ottawa	20,000
Oshawa Land and Investments, Limited	Toronto	100,000

List of Companies incorporated for the year 1912, ending October 31st.—*Continued.*

Name.	Address.	Capital.
		$
The Ontario Agency Company, Limited	Toronto	40,000
The Oakwood Realty Company, Limited	Hamilton	40,000
The Ontario Hughes Owens Company, Limited	Ottawa	50,000
The Ontario Oxy-Acetylene Devices and Machine Co., Ltd.	Toronto	250,000
Ontario Engine Company, Limited	Toronto	100,000
Open Book Rest Company, of Canada, Limited	Hamilton	100,000
Owl Drug Stores, Limited	Toronto	200,000
Oriole Park, Limited	Toronto	200,000
Ottawa Pattern and Foundry Company, Limited	Ottawa	40,000
The Oakville Arena Company, Limited	Oakville	50,000
Orono Telephone Company, Limited	Orono	5,250
Ottawa Fruit Dealers' Supply Company, Limited	Ottawa	9,000
Ontario Homes, Limited	Toronto	500,000
Old Orchard Land Company, Limited	Toronto	50,000
Ottawa and St. Lawrence Construction Company, Limited	Toronto	40,000
The Oxygen Fuel Company, of Canada, Limited	Toronto	20,000
Office Fittings, Limited	Stouffville	150,000
Ontario Solid Silver Mines, Limited	Toronto	100,000
Oxford Realty Company, Limited	Toronto	40,000
Oakley Heights Realty Company, Limited	Hamilton	40,000
P.		
Port McNicoll Realty Company, Limited	Toronto	100,000
Pfeffer Milling Company, Limited	Milverton	100,000
The Peel, J. E., Limited	Toronto	10,000
Patterson Land Company, Limited	Toronto	500,000
People's Co-operative Association, of Collingwood, Ltd.	Collingwood	10,000
Purchase Realty Company, Limited	Toronto	50,000
The Parry Sound Wood Turning Company, Limited	Parry Sound	20,000
Porcupine-Hecla Mining Company, Limited	Toronto	1,500,000
The Parks, A. W., & Son Company, Limited	Petrolia	20,000
Porcupine Gold Peak, Limited	Toronto	1,500,000
The Peterborough Knights of Columbus Club, Limited	Peterborough	5,000
Permanent Securities, Limited	Toronto	200,000
Porcupine East Lake Mining Company, Limited	S. Porcupine	500,000
Porcupine Fortuna Gold Mines, Limited	Toronto	2,000,000
The Porcupine Commander Gold Mines, Limited	Toronto	1,000,000
Presqu'ile Canning Company, Limited	Brighton	40,000
Perfection Cooler Company, Limited	Toronto	50,000
Peltiers, Limited	Fort William	40,000
Pallister's, Limited	Toronto	40,000
Provincial Motors, Limited	Toronto	70,000
Parkdale Realty Company, Limited	Toronto	40,000
Periodicals, Limited	Toronto	40,000
Porcupine Twin Mining Company, Limited	Toronto	1,950,000
Porcupine Golden Quill Mining Company, Limited	Toronto	1,500,000
The Port Dover Brick and Tile Company, Limited	Port Dover	60,000
Pelham Co-operative Association, Limited	Fonthill	10,000
The Peterborough Baseball Club, Limited	Peterborough	10,000
Prices, Limited	Toronto	100,000
The Paris Co-operative Society, Limited	Paris	10,000
The Paragon Silver Mining Company, Limited	Collingwood	500,000
Peninsula Realty Company, Limited	Hamilton	40,000
The People's Steamboat Company, Limited	Toronto	150,000
Porcupine Krist Mines, Limited	Toronto	1,500,000
The Picton Gazette Publishing Company, Limited	Picton	20,000
Prentice Wireless Systems, Limited	Toronto	1,500,000
Porcupine Gold Leaf Mining Company, Limited	Toronto	1,000,000
The Port Credit Land Company, Limited	Toronto	50,000

List of Companies incorporated for the year 1912, ending October 31st.—*Continued.*

Name.	Address.	Capital.
		$
Patrick, W. G., & Company, Limited	Toronto	250,000
Patricia Park, Limited	Toronto	100,000
Penn-Canadian Mines, Limited	Toronto	1,500,000
People's Proprietary Mines Company, Limited	Toronto	250,000
Prudential Investments, Limited	Toronto	40,000
Pollard Manufacturing Company, Limited	Niagara Falls	50,000
Porcupine Drug Company, Limited	S. Porcupine	10,000
The Pearce, W. E., Company, Limited	Gananoque	20,000
The Provincial Investments, Limited	Toronto	100,000
Planters Syndicate, Limited	Toronto	350,000
Peppler Brothers, Limited	Hanover	100,000
Provincial Estates, Limited	Toronto	40,000
The Peninsular Construction Company, Limited	St. Catharines	400,000
Pittsburgh Lamp, Brass and Glass Co., of Canada, Ltd.	Toronto	10,000
Peerless Real Estate and Securities Company, Limited	Toronto	25,000
The Perth Realty Company, Limited	Stratford	40,000
Peterboro' Oil and Gas Company, Limited	Peterborough	40,000
Pearce Meat Company, Limited	North Bay	20,000
Parker's Dye Works, Limited	Toronto	100,000
The Producers' Fish Company, Limited	Port Stanley	20,000
The Port Credit Club, Limited	Port Credit	25,000
The Paris Brick and Clay Company, Limited	Brantford	100,000
Pembroke Shook Mills, Limited	Pembroke	100,000
Parsons-Booth, Limited	Toronto	50,000
Port McNicoll Investments, Limited	Toronto	25,000
Petrolia Motor Car Company, Limited	Petrolia	300,000
The Price-Cumming Brick Company, Limited	Toronto	100,000
The Pratt Mining Company, of Ontario, Limited	Sault Ste. Marie	50,000
The Peterborough Model Foundry & Manufacturing Co., Ltd.	Peterborough	40,000
Q.		
Queen City Press, Limited	Toronto	40,000
Quaker City Porcupine Mines, Limited	Toronto	2,000,000
R.		
Rose Hill Natural Gas Company, Limited	Bridgeburg	5,000
Ramsay, E., Sinclair, Limited	Toronto	500,000
The Ross, J. H., Boat and Canoe Company, Limited	Orillia	40,000
Reliance Shoe Company, Limited	Toronto	40,000
Rishor's, Limited	Peterborough	100,000
Railway Equipment Company, of Toronto, Limited	Toronto	40,000
Riberdy Brothers, Limited	Walkerville	40,000
Ritchie, Harold F., & Company, Limited	Toronto	60,000
The Restoratone Company, Limited	Toronto	40,000
Rice & Whaley, Limited	Toronto	40,000
Rogers, McEwen, Limited	Toronto	40,000
Ross, Fred. H., and Company, Limited	Toronto	40,000
Rice, A. R., and Company, Limited	Toronto	40,000
Roden Brothers, Limited	Toronto	300,000
The Runnymede Realty Company, Limited	Toronto	60,000
Regal Manufacturing and Supply Company, Limited	Ottawa	25,000
The Rosedale Motor Company, Limited	Toronto	40,000
The Royal Shoe Company, Limited	Toronto	150,000
Ready-to-Wear, Limited	London	40,000
Rogers, V. V., Limited	Ottawa	100,000
Read, Frankland, Limited	Toronto	40,000
The Roberts and Van-Lane Shoe Company, Limited	Brantford	40,000
The Ritchie Cut Stone Company, Limited	Hamilton	40,000

List of Companies incorporated for the year 1912, ending October 31st.—*Continued.*

Name.	Address.	Capital.
		$
Renfrew Flour Mills, Limited	Renfrew	500,000
The Richards Glass Company, Limited	Toronto	40,000
The Rosevale Realty Company, Limited	Toronto	80,000
The Reliable Furniture Company, Limited	Toronto	40,000
Rea and Lynch, Limited	Toronto	100,000
Rideau Electric Supplies, Limited	Ottawa	40,000
The Royal Templar Hall Company, Limited	Toronto	100,000
Rockyford Irrigation Land Company, Limited	Toronto	40,000
Ruby Cigar Company, Limited	Hamilton	40,000
Romanite, Limited	Toronto	50,000
The Renfrew Hotel Company, Limited	Renfrew	75,000
The Ritter Illuminating and Manufacturing Co., Ltd.	St. Catharines	75,000
The Rahn Bee and Honey Company, Limited	Haileybury	40,000
The Rapids Power Company, Limited	Toronto	200,000
The Ravenscliffe Telephone Company, Limited	Ravenscliffe	2,500
The Regal Fence Company, Limited	Sarnia	100,000
The Renfrew Textile Company, Limited	Renfrew	50,000
Robertson Contracting Company, Limited	Toronto	40,000
Robertson, Geo., and Son, Limited	Kingston	150,000
Rosemount Gardens, of Hamilton, Limited	Hamilton	40,000
Roselawn Realty Company, Limited	Toronto	40,000
Rochester Mines, Limited	Toronto	1,000,000
The Republic Motor Car Company, of Canada, Limited	Toronto	40,000
Roxborough Gardens, of Hamilton, Limited	Hamilvton	50,000
Reliable Bedding Company, Limited	Weston	60,000
S.		
Seneca Porcupine Gold Mining Company, Limited	Toronto	1,500,000
Suburban Amusement Company, Limited	Toronto	20,000
Scottish Ontario Gold Mining Company, Limited	Toronto	1,500,000
Stewarts, Limited	Renfrew	100,000
Standard Blend Tea Company, Limited	Peterborough	40,000
The Soo Hardware Company, Limited	Sault Ste. Marie	40,000
The Stroud Telephone Company, Limited	Stroud	4,000
The Switzer Mining Company, Limited	Haileybury	500,000
The Sewsure Manufacturing Company, Limited	Dunnville	40,000
The Slocum Company, Limited	Toronto	100,000
The Sarnia Fence Company, Limited	Sarnia	500,000
The Share and Debenture Corporation, of Canada, Limited	Toronto	100,000
Southern Products, Limited	Toronto	250,000
The St. Catharines Realty and Building Company, Limited	St. Catharines	40,000
South Porcupine Centre Townsite Company, Limited	Toronto	100,000
Shimamura Company, Limited	Toronto	40,000
Stag Island Corporation, Limited	Sarnia	10,000
Savoy Candy Company, Limited	Toronto	60,000
Sanitary Manufacturing Company, Limited	Woodstock	50,000
Shuttleworth, J. R., & Sons, Limited	London	80,000
The Scarboro' Golf and Country Club, Limited	Toronto	100,000
Sanitary Packing Company, Limited	Toronto	100,000
Scannell's, Limited	Ft. William	40,000
South Bay Mines, of Gowganda, Limited	Toronto	40,000
The South Walsingham Cheese and Butter Company, Limited	Port Rowan	10,000
Smith & Durkee Diamond Drilling Company, Limited	Sudbury	40,000
Smith Protectors, Limited	Toronto	40,000
Saratoga Syracuse Mining Company, Limited	Toronto	1,000,000
Sterling Specialty Company, Limited	Toronto	40,000
Soo Trap Rock Company, Limited	Sault Ste. Marie	50,000
South Crosby Rural Telephone Company, Limited	Elgin	20,000
Smith's, Limited	Sault Ste. Marie	40,000

List of Companies incorporated for the year 1912, ending October 31st.—*Continued.*

Name.	Address.	Capital.
		$
The Sandblast and Coating Company, Limited	Toronto	50,000
The Summerstown Station Cheese Company, Limited	Summerstown Station	3,000
Scarborough Land Company, Limited	Toronto	100,000
The Superior Match Company, Limited	Toronto	200,000
Scott, Hammond & Pratt, Limited	Toronto	40,000
The Sun Brick Company, Limited	Toronto	350,000
The Soo Dredging and Towing Company, Limited	Sault Ste. Marie	100,000
Salter-Disher Steel Company, Limited	Toronto	300,000
The Sunshine Cloak Company, Limited	Toronto	40,000
The Salyerds Manufacturing Company, Limited	Preston	40,000
The South Porcupine Athletic Association, Limited	S. Porcupine	40,000
Schneider, J. M., & Sons, Limited	Berlin	60,000
The Stergian's Repeating Arms Company, Limited	Ingersoll	80,000
The Star Mica Mining Company, Limited	Kingston	400,000
Shaw, J. R., Limited	Ottawa	40,000
Southern Realties, Limited	St. Thomas	100,000
The St. Lawrence Realty Company, Limited	Toronto	50,000
Shale Products, Limited	Inglewood	150,000
Stearns, M. L., & Son, Limited	L'Orignal	200,000
Selling Service, Limited	Toronto	40,000
The St. Catharines Improvement Company, Limited	St. Catharines	100,000
Scantlebury, Limited	Belleville	30,000
Silver-Islet Navigation Company, Limited	Fort William	40,000
Sparks-Withington Company, Limited	Walkerville	40,000
Star Knitting Mills, Limited	Toronto	40,000
Stapleton Amusements, Limited	Ottawa	40,000
Standard Development Company, Limited	Bowmanville	100,000
Summer Homes, Limited	Toronto	40,000
Sterling Neckwear Company, Limited	Toronto	40,000
Smith, Dudley, Stuart Company, Limited	Burlington	40,000
Stanley Heights, Limited	Hamilton	40,000
Silver Islet Mining Company, Limited	Fort William	500,000
Six Nations Mining Company, Limited	Toronto	1,000,000
The Spence Lumber Company, Limited	Seguin Falls	40,000
Shea's Theatre Company, Limited	Toronto	500,000
Standard Motors, Limited	Toronto	40,000
The St. Clair Boulevard Land Company, Limited	Toronto	40,000
The Southampton Lawn Bowling and Tennis Club, Limited	Southampton	10,000
Strachan, Burden & Plaskett, Limited	Toronto	40,000
The St. Thomas Cold Storage Company, Limited	St. Thomas	100,000
The Sterling Silver Mines, Limited	Toronto	1,250
The St. Joe Island Fruit Lands Company, Limited	Sault Ste. Marie	40,000
Sterling Rubber Company, Limited	Guelph	40,000
Sturgeon's, Limited	Toronto	50,000
Standard Steel Construction Company, Limited	Toronto	200,000
Security Investments, Limited	Toronto	50,000
Superior Brick Company, Limited	Fort William	500,000
Sunshine Laundry Company, Limited	Hamilton	40,000
The Summit Golf and Country Club, Limited	Toronto	100,000
Stone-Grant Lumber Company, Limited	Toronto	500,000
Standard Metal Selling Company, Limited	Toronto	40,000
T.		
Teck Swastika Gold Mines, Limited	Toronto	2,500,000
Toronto Pressed Brick & Terra Cotta Co., of Milton, Ltd	Toronto	300,000
Tate-Sellew Motors, Limited	Toronto	1,000,000
Tivani Electric Steel Company, Limited	Belleville	20,000
Taxi-Cabs, of Ottawa, Limited	Ottawa	40,000

List of Companies incorporated for the year 1912, ending October 31st.—*Concluded.*

Name.	Address.	Capital.
		$
Toronto Holdings Company, Limited	Toronto	100,000
Toronto and Montreal Properties, Limited	Toronto	100,000
Tweed Electric Light and Power Company, Limited	Toronto	40,000
Toronto Pad Company, Limited	Toronto	40,000
Turner Realty Company, Limited	Hamilton	45,000
The Twin City Labor Publishing Company, Limited	Port Arthur	10,000
The Thompson Lace and Veiling Company, Limited	Toronto	40,000
The Toronto Creamery Company, Limited	Toronto	40,000
The Twin City Co-operative Association, Limited	Berlin	10,000
Templeton, Kenly & Company, Limited	Toronto	50,000
Transfer and Registrar Company, Limited	Toronto	40,000
The Toronto Alberta Land Company, Limited	Toronto	40,000
The Typo-Telegraph Company, Limited	Toronto	500,000
Toronto Fruit Auction Company, Limited	Toronto	40,000
Townsite Extension Mines, Limited	Toronto	100,000
The Toronto Iron Works, Limited	Toronto	200,000
Toronto Eastern Land Company, Limited	Toronto	250,000
The Tremont Hotel Company, Limited	Toronto	100,000
Toronto Amusement Construction Company, Limited	Toronto	40,000
The Toronto Building and Land Company, Limited	Toronto	50,000
Toronto and Leaside Properties, Limited	Toronto	100,000
Trenton Land Company, Limited	Toronto	60,000
The Toronto Housing Company, Limited	Toronto	1,000,000
Toronto Properties, Limited	Toronto	500,000
Toronto School Supply Company, Limited	Toronto	40,000
The Toronto Lawn Tennis Club, Limited	Toronto	75,000
Toronto Development, Limited	Toronto	300,000
Toronto Concrete Building Company, Limited	Toronto	40,000
Thorold Planing Mills, Limited	Thorold	40,000
Terrene Land Company, Limited	Toronto	150,000
Toronto Detective Agency, Limited	Toronto	40,000
Twin City Ice Company, Limited	Ottawa	100,000
Toronto Electric Motor Car Company, Limited	Toronto	300,000
Thor Iron Works, Limited	Toronto	100,000
The Toronto Distributing Company, Limited	Toronto	40,000
The Twin City Athletic Association, Limited	Berlin	40,000
Texas Securities Company, Limited	Toronto	40,000
U.		
The Universal Motor Company, of Canada, Limited	Fort William	1,000,000
The Union Natural Gas Company, of Canada, Limited	Niagara Falls	3,000,000
Union Land Company, of Toronto, Limited	Toronto	50,000
United Hardwares, Limited	Toronto	3,000,000
Utor Remedy Company, Limited	Toronto	40,000
United Ladies' Wear, Limited	Toronto	100,000
The Urban Securities Company, Limited	Toronto	100,000
The Union Dairy Company, Limited	Toronto	40,000
The Upper James Street Park Company, Limited	Hamilton	100,000
The Union Electric and Contracting Company, Limited	Toronto	150,000
Universal Securities, Limited	Toronto	40,000
The Union Brick Company, Limited	Toronto	350,000
The Usit Manufacturing Company, Limited	Toronto	100,000
Utility Company, of Canada, Limited	Toronto	40,000
Urban Realties, of Niagara Falls, Limited	Niagara Falls	50,000
V.		
Victoria Garage Company, Limited	Ottawa	100,000
Vollans, F. W., & Company, Limited	Walkerville	40,000
The Villiers Dairy Company, Limited	Villiers	10,000
The Viaduct Realty Company, Limited	Toronto	40,000

List of Companies incorporated for the year 1912, ending October 31st.—*Concluded*

Name.	Address.	Capital.
		$
The Victor Electric Company, Limited	Guelph	20,000
Victoria Construction Company, Limited	Toronto	40,000
The Valley Canning Company, Limited	Sarnia	40,000
Victoria Corners, Limited	Toronto	160,000
W.		
White, H., & Company, Limited	Shelburne	60,000
The Wilkie Townsite Realty Company, Limited	Toronto	100,000
Winyah Gold Mines, Limited	Toronto	2,500,000
Western Canada Properties, Limited	Toronto	500,000
The Wood Guthrie Company, Limited	Toronto	100,000
The Wiener Company, Limited	Dorion	25,000
Winter, A. H., Joyner, Limited	Toronto	40,000
Wrights Limited	Toronto	200,000
Woodstock Pneumatic Tool & Machine Company, Limited	Woodstock	40,000
Windsor Auto Axle Company, Limited	Windsor	15,000
Weaver Manufacturing Company, Limited	Toronto	40,000
Wells Adjustable Chaplet Company, Limited	Toronto	200,000
Wylie, Limited	Ottawa	250,000
Wilcox, E. M., Limited	Toronto	60,000
W. S. M. K. Mining Company, Limited	Toronto	200,000
Wing, J. T., & Company, Limited	Windsor	40,000
The Wilkie Realty and Development Company, Limited	Toronto	40,000
Webber's, Limited	Petrolia	40,000
The Wentworth Orchard Company, Limited	Dundas	100,000
Welland Realty Company, Limited	Welland	40,000
Wilson, John T., Limited	Toronto	40,000
West Toronto Realty Company, Limited	Toronto	40,000
Watchorn & Company, Limited	Merrickville	40,000
Weston Brick Company, Limited	Toronto	100,000
Williams, Limited	Toronto	40,000
Wickens Lumber Company, Limited	Wallaceburg	10,000
The White Syndicate, Limited	Toronto	110,000
The Waines and Root Gas Company, Limited	Dunnville	400,000
Waterloo Estates, Limited	Toronto	40,000
Wait Remedies, Limited	Ottawa	50,000
The Westminster Realty Company, Limited	Toronto	300,000
Williams, Woodley & Sons, Limited	Toronto	40,000
The White Machine Works, Limited	Windsor	40,000
Welland Dredging Company, Limited	Welland	100,000
The Windsor Club Limited	Windsor	40,000
Windermere Park, Limited	Hamilton	40,000
The Woelfle, W. E., Shoe Company, Limited	Berlin	40,000
The Worthington-Rowe Lumber & Development Co., Ltd.	Toronto	100,000
The Wallaceburg Knitting Company, Limited	Wallaceburg	40,000
Writerpress Sales Company, Limited	Toronto	60,000
The Watson Company, Limited	New Liskeard	40,000
The Woodbine Hotel Company, Limited	Toronto	100,000
Webb Lumber Company, Limited	Toronto	40,000
Winona Gardens, Limited	Hamilton	40,000
The Williams Chemical Company, Limited	Russell	100,000
Y.		
York Sand and Gravel, Limited	East Toronto	200,000
York Land Company, Limited	Toronto	1,000,000
The York Quarry Company, Limited	Toronto	75,000
York Sandstone Brick Company, Limited	Toronto	80,000
The Yonge Street Cafeterias, Limited	Toronto	150,000
York Ontario Silver Mines, Limited	Cobalt	1,000,000
The York Mills Sand Company, Limited	Toronto	50,000

APPENDIX B.

List of Companies Licensed to do Business in Ontario.

Name of Company.	Where Incorporated.	Attorney.
A.		
Anglo-Canadian Contractors, Limited	Dominion	James Steller Lovell.
The Auto-Strop Safety Razor Co., Ltd.	Dominion	Wm. John McWhinney.
Edgar Allen & Company, Limited	Great Britain and Ireland	Alexander Fasken.
The Ashover Fluor Spar Mines, Limited	Great Britain and Ireland	Chas. Stanley Mallett.
The Arena Gardens of Toronto, Limited	Dominion	Lawrence Solman.
The Adder Machine Company	Pennsylvania	F. W. Warren.
Alberta Financial Brokers, Limited.	Alberta	Norman Sommerville.
Arnold Electric Power Station Co.	Illinois	L. B. Wulff.
Aberthaw Construction Company	Maine	Geo. A. Hendrie.
B.		
Barcelona Traction, Light & Power Company, Limited	Dominion	James Steller Lovell.
Birdsell Manufacturing Company	Indiana	Perry H. Thomas.
British Canadian Canners, Limited.	Dominion	W. N. Tilley.
Bishop Construction Co., Ltd.	Dominion	Frank Ericksen Brown.
Belding Paul Corticelli, Limited	Dominion	Wm. P. MacDougall.
Bates & Rogers Construction Co.	Illinois	Clarence S. Smith.
W. J. Bush & Co. (Canada), Limited	Dominion	George E. Hubbard.
Borden's Condensed Milk Co., Ltd.	Dominion	George Chas. Loveys.
Borden Milk Company, Limited.	Dominion	George Chas. Loveys.
Burroughs & Watts, Limited	Great Britain and Ireland	James Walter Curry.
Benjamin Electric Manufacturing Company of Canada, Limited.	Dominion	George C. Knott.
Bitulithic Paving Company, Limited	Quebec	John M. Godfrey.
Brazilian Traction, Light and Power Company, Limited	Dominion	John Maitland Smith.
C.		
Canadian P. J. Mitchell Company, Ltd.	Great Britain and Ireland	Malcolm H. Robinson.
Chamberlain Medicine Co., Ltd.	Iowa	George H. Irwin.
Carillon Construction and Development Company, Limited	Dominion	Wm. R. Carmichael.
Canadian Sunbeam Lamp Co., Ltd.	Dominion	Jas. Kirkpatrick Kerr.
Canadian Explosives, Limited	Dominion	Fred. Lever Hallford.
Canadian City and Town Properties, Limited	Great Britain and Ireland	Frank H. Keefer.
Canada Foundries and Forgings, Ltd.	Dominion	Wm. Senkler Buell.
The Chamberlain and Hookham Meter Company, Limited	Dominion	Stanley Llandoff. Burnett Lines.
Canadian Train Control, Limited.	Dominion	Jerome Lee Tuttle.
Commercial Engineering Company of Canada, Limited	Dominion	Jas. Steller Lovell.
Canadian Interlake Line, Limited.	Dominion	Joseph Wm. Norcross.
Canadian and General Finance Co., Limited	Dominion	Wm. Edward Davidson.
Canada Securities Corporation, Ltd.	Dominion	Edmund Bristol.
Canadian Domestic Engineering Co., Limited	Dominion	George Huey.
The Clapp Fire Resisting Paint Company	Connecticut	Albert John Wise.
Canadian Sand Blast Company, Ltd.	Dominion	Wm. Nelson Graham.

List of Companies Licensed to do Business in Ontario.—*Continued.*

Name of Company.	Where Incorporated.	Attorney.
Catalonian Land Company, Limited	Dominion	William Bain.
Canada Wire and Cable Co., Ltd.	Dominion	W. R. Percival Parker.
Canadian Ingersoll-Rand Co., Ltd.	Dominion	Archibald Abercromby Bowman.
The Canadian Warren Axe and Tool Co., Limited	Dominion	George Bennett Burson.
Cluett, Peabody & Co.	New York	Frank Ericksen Brown.
Canadian Lacteal Company, Limited	Dominion	John James Mason.
D.		
Dearborn Supply Company	Illinois	N. A. Bartlett.
Dominion Paint Works, Limited	Dominion	Noble A. Bartlett.
The Dryden Mining Company	Ohio	Ernest Grant Rognon.
Davis Acetylene Company	South Dakota	Joseph Henry Baker.
The Doty Engine Works Company of Winnipeg, Limited	Manitoba	Frederick W. Doty.
DeLaval Dairy Supply Co., Ltd.	Dominion	Edmond Baird Ryckman.
The Thomas Davidson Manufacturing Company, Limited	Dominion	Rich. Cameron Warmington
Dennison Manufacturing Company	Massachusetts	Wm. E. P. Howell.
John W. Danforth Company	New York	A. Neville Morine.
Dominion Steel Castings Co., Ltd.	Dominion	John Dawson Montgomery
The Dominion Charcoal Company, Ltd.	Dominion	Arthur Wellington Stickle.
The Dominion Settlement Assn., Ltd.	Great Britain and Ireland	Manager Molsons Bank, Simcoe, Ont.
E.		
Ebro Irrigation and Power Co., Ltd.	Dominion	James Steller Lovell.
El Paso Milling Company, Limited.	Dominion	James Steller Lovell.
Empire Flour Mills, Limited	Dominion	Robert N. Price.
European and Brazilian Shipping Company, Limited	Dominion	James Steller Lovell.
Espirito Santo Chartered Co., Ltd.	Dominion	James Steller Lovell.
Escher Wyss & Company	Switzerland	Hugh Edward Rose.
F.		
The Frederickson Company	Illinois	Frank Ericksen Brown.
Fort William Orpheum Company	Illinois	Fred. Royden Morris.
Franklin Automobile Company	New York	W. R. Percival Parker.
The Freehold Security Company, Ltd.	Alberta	William Ridout Wadsworth
Flax, Limited	Dominion	James Gibson
Fortier & Kilpatrick, Limited	Dominion	John Leonard Thorne.
Ford Motor Company of Canada, Limited	Dominion	Gordon M. McGregor
G.		
The Wm. Gray-Sons-Campbell, Limited.	Dominion	Robert Gray.
General Realty Corporation, Limited	Dominion	James Whalen.
General Fire Extinguisher Company	New York	Ed. Warner Wright.
General Motors Company of Canada, Limited	Dominion	W. R. Percival Parker.
Grant, Holden Graham, Limited	Dominion	Spencer Sutherland Holden.
Gibson, Taylor, Strathy and Company, Limited	Dominion	Allan Burdette Taylor.

List of Companies Licensed to do Business in Ontario.—*Continued.*

Name of Company.	Where Incorporated.	Attorney.
J. & A. D. Grimond (Canada), Ltd..	Dominion	Wm. McIntosh Cooper.
Guaranty Trust Co. of New York ..	New York	Britton Osler.
Gordon-Davies, Limited	Dominion	John Dawson Montgomery . . . . .
H.		
Hall & Elich, Limited	Dominion	James Henry Hall.
Howard Asphalt Troughing Company, Limited	Great Britain and Ireland	Chas. Stanley Mallett.
Hotel and Travel, Limited	Dominion	Wm. B. Bow.
The Higgin Manufacturing Company ...	West Virginia	Walter Higgin.
Hilda Cigar Company, Limited ...	Dominion	David Sweet.
Hewitt-Allen Co.	New York	Patrick Kernan Halpin.
Harper-Presnail Cigar Co., Ltd.....	Dominion	Wm. Payne Presnail.
I.		
Imperial Wire & Cable Co., Ltd.....	Dominion	James Bicknell.
Independent Cigar Company, Ltd...	Dominion	Robert Hyslop.
J.		
B. M. & T. Jenkins, Limited	Dominion	Thomas Jenkins.
Johnson Temperature Regulating Company of Canada, Limited...	Dominion	Leighton McCarthy.
K.		
Kawneer Manufacturing Company..	Michigan	William Power.
L.		
The Linde British Refrigeration Company, Limited	Great Britain and Ireland	John Shirley Denison.
The Lancashire Dynamo and Motor Company of Canada, Limited	Dominion	George Eric Mason.
P. Lyall & Sons Construction Company, Limited	Dominion	Geo. Gier McCullough.
The Lautz Company	New York	Lorenzo Clarke Raymond.
Laurentia Milk Company, Limited.	Dominion	Henry O'Brien.
Linds Fruit Company, Limited	Dominion	James Steller Lovell.
H. Levy & Sons, Limited	Dominion	Philip Levy.
M.		
John S. Metcalf Co., Limited	Dominion	David Caldwell Eastman.
The Montreal and Great Lakes Steamship Company, Limited	Dominion	James Henry Hall.
The Miner Rubber Company, Limited ..	Dominion	George Cain.
The Daniel J. McA'Nulty Realty Company, Limited	Dominion	Edward P. Gleeson.
Maumee Valley Land Company	Indiana	Alex. R. Bartlett.
Miller, Franklin & Stevenson (Inc.)	New York	H. C. Stevenson.
Matthews-Laing, Limited	Dominion	Robert George Code.
Montreal Financial Times Publishing Company, Limited	Dominion	Chas. Franklin King.
Merrill Metallurgical Company	California	Dr. L. H. Forbes.
J. H. Macdonald Lumber Company.	Michigan	John H. Macdonald.
Major Hill Taxicab and Transfer Company, Limited	Dominion	Milton H. McVeity.
The Mineral Products Company	Ohio	Joseph Montgomery.

List of Companies Licensed to do Business in Ontario.—*Continued.*

Name of Company.	Where Incorporated.	Attorney.
The John McDougall Caledonian Iron Works Company, Limited	Dominion	R. H. Zavitz.
Montreal Transportation Company (Limited)	Dominion	Edgar Alfred Turner.
The Montreal Welland Land Co., Ltd.	Dominion	Byron Jas. McCormick.
MacKenzie & MacKenzie, Limited	Manitoba	John F. Lennox.
N.		
The New Brunswick Pulp & Paper Company, Limited	New Brunswick	Eric Norman Armour.
National Salesman's Training Association	Arizona	George C. Fellows.
Northern Aluminum Co., Limited	Dominion	Leighton McCarthy.
The Noiseless Typewriter Company	Connecticut	William H. Brouse.
North Coast Land Company, Limited	British Columbia	Fred. A. Mulholland.
National Steel Car Company, Ltd.	Dominion	G. H. Levy.
National Pipe & Foundry Co., Ltd.	Dominion	Francis Thos. Costello.
O.		
The Oriental Carpet Manufacturers, Ltd.	Great Britain & Ireland	Wm. Frederick Craner.
P.		
The Publishers' Association of Canada, Limited	Dominion	Robt. Pollock Glasgow.
Port Arthur Land and Development Company, Limited	Manitoba	John Armour Dyke.
Port Colborne and St. Lawrence Navigation Company, Limited	Dominion	Hedley Shaw.
Parkdale Lands, Limited	Manitoba	John Armour Dyke,
L. C. Prime Company, Limited	New Brunswick	Jas. Leslie Prosser.
The Patricia Mining Syndicate, Limited	Great Britain and Ireland	Frank Denton.
Porter, Manzer, Limited	New Brunswick	Harry Webb.
The Price River Oil Fields, Limited	Great Britain and Ireland	Edmund Anderson Cleary.
R.		
Robeson Preserve Products Co.	Michigan	Richard V. LeSueur.
A. J. Reach Company	Pennsylvania	Harry Booth.
Jerome H. Remick & Company	New York	Jas. Frederick Edgar.
Rumely Products Companp	New York	Thomas A. Rowan.
C. A. Rickards, Limited	Great Britain and Ireland	George Somerville.
Revilon Frères Trading Co., Ltd.	Dominion	James Steller Lovell.
Reindeer, Limited	Dominion	George Charles Loveys.
C. W. Raymond Company	Ohio	Frank A. Elliott.
S.		
The Sherwin-Williams Company of Canada, Limited	Dominion	John W. Benson.
Joseph E. Seagram & Sons, Limited	Dominion	Joseph E. Seagram.
Sao Paulo Electric Co., Limited	Dominion	Wm. Edward Davidson.
Stone Realty Company	Minnesota	Arthur Dufferin George.
Henry J. Sims Company (Limited)	Dominion	Wm. Louis Scott.
Standard Underground Cable Co. of Canada, Limited	Dominion	Wm. Henry Marsh.
St. Charles Condensing Co., Limited	Dominion	Geo. Charles Loveys.
The Star Iron Company, Limited	Dominion	James Edward Day.

List of Companies Licensed to do Business in Ontario.—*Concluded.*

Name of Company.	Where Incorporated.	Attorney.
The Searchlight Gas Company	Ohio	Charles W. Kerr.
Sultana, Limited	Dominion	John Douglas Bissett.
Southam Press, Limited	Dominion	Richard Southam.
T.		
Tucker Piano and Music Company	Manitoba	Edwin Shellard.
Toronto Agency Company, Limited.	Dominion	James Houston Spence.
Raphael Tuck & Sons Co., "Limited"	New York	David Inglis Grant.
J. Walter Thompson Co., Limited	Dominion	John C. Kirkwood.
Truro Condensed Milk Co., Limited	Dominion	Geo. Charles Loveys.
The Triumph Electric Compny	Ohio	Alex. Robt. Bartlett.
The Tuckett Tobacco Company, Limited	Dominion	Jas. Wilmot Lamoreaux.
Toronto Paper Mfg. Co., Limited	Dominion	Thos. Henry Watson.
J. & J. Taylor, Limited	Dominion	Joseph M. West. William N. West. Howard T. West.
U.		
Universal Music Company	New Jersey	John N. Dunn.
Urban Lands, Limited	Dominion	Jno. Elliott Swinburne.
V.		
The Victoria Navigation Co., Ltd.	Dominion	James Henry Hall.
The E. J. Von Gal Hat Company	Connecticut	Clarence C. Howes.
W.		
Welch, Margetson and Co., Ltd.	Great Britain and Ireland	George T. Wilson.
The Wolseley Tool and Motor Car Co.	Great Britain and Ireland	William Hargraft Gooderham.
Ware Manufacturing Co., Limited	Dominion	Carl Freeman Hopkins.
Windsor Theatre Company	Michigan	Alex. Robt. Bartlett.
Windbrush Shipping Company, Ltd.	Dominion	Philemon Chas. Walker.
F. W. Woolworth Company, Ltd.	Dominion	Ralph Connable.
The Wickes Boiler Company	Michigan	Gershom Wm. Mason.

APPENDIX C.

List of Companies whose Capital was Increased.

Name of Company.	From	To	Date.
A.			
The Adams Wagon Company, Limited	250,000	1,000,000	June 21, 1912.
Algoma Produce Company, Limited	50,000	250,000	September 7, 1912.
Algoma Steel Corporation, Limited.	1,000,000	30,000,000	April 1, 1912.
B.			
Battle Creek Toasted Corn Flake Co., Ltd..	100,000	250,000	November 9, 1911.
Bartram Brothers, Limited	20,000	50,000	December 7, 1911.
Brigdens, Limited	100,000	250,000	January 18, 1912.
The Brown Boggs Company, Limited	150,000	500,000	February 10, 1912.
The Bowmanville Foundry Company, Limited.	40,000	100,000	February 14, 1912.
C.			
The Canadian Talc and Silica Company, Ltd...	100,000	150,000	October 26, 1911.
The Cosgrave Brewery Co. of Toronto, Ltd. ..	200,000	300,000	October 26, 1911.
The Canada Malleable and Steel Range Manufacturing Company, Limited	50,000	250,000	December 6, 1911.
The Canadian National Horse Show Association, Limited	2,000	3,000	December 15, 1911.
The Chipman-Holton Knitting Company, Ltd..	150,000	500,000	October 19, 1912.
D.			
The Dominion Stamping Company, Limited...	100,000	250,000	May 10, 1912.
Dieckerhoff, Raffloer & Company of Canada, Limited	80,000	160,000	May 25, 1912.
Diamond Flint Glass Company, Limited..	3,500,000	4,000,000	October 10, 1912.
E.			
Etobicoke Land Company, Limited	100,000	250,000	May 4, 1912.
F.			
The Fitzsimmons Fruit Company, Limited ...	40,000	100,000	February 21, 1912.
Fort William Coal Dock Company, Ltd...	200,000	500,000	March 21, 1912.
G.			
The Goold Shapley and Muir Company of Brantford, Limited	275,000	1,000,000	January 24, 1912.
The Georgian Bay Shook Mills, Limited	80,000	250,000	March 11, 1912.
H.			
The Hough Lithographing Company, Limited..	40,000	150,000	January 5, 1912.
Hees, Geo. H., Son, & Company, Limited..	600,000	800,000	March 9, 1912.
Holtby Bros., Limited	40,000	100,000	March 16, 1912.
The Hamilton Lock and Hardware Manufacturing Company, Limited	100,000	200,000	April 2, 1912.
The Ham and Nott Company, Limited	200,000	800,000	May 30, 1912.
Halliday, F. G., Limited	40,000	100,000	July 22 1912.

List of Companies whose Capital was Increased.—*Continued.*

Name of Company.	From	To	Date
I.			
Imperial Cocoa and Spice Company, Limited...	30,000	40,000	July 20, 1912.
J.			
The Journal Printing Company of Ottawa, Ltd.	50,000	100,000	November 25, 1911.
K.			
Kindel Bed Company, Limited	40,000	100,000	December 18, 1911.
L.			
R. Laidlaw Lumber Company, Limited....	300,000	1,000,000	December 29, 1911.
The J. M. Lowes Company of Toronto, Ltd....	20,000	100,000	March 15, 1912.
The Lanark and Carleton Counties Telephone Company, Limited	5,000	20,000	May 7, 1912.
Lowe Brothers, Limited	100,000	150,000	July 10, 1912.
M.			
Malcolm & Souter Furniture Co., Ltd. ...	75,000	150,000	February 5, 1912.
The McLean, J. B., Publishing Company, of Toronto, Limited	3,000	1,000,000	February 15, 1912.
The Monarch Realty & Securities Corporation, Limited	100,000	1,000,000	February 9, 1912.
Metals-Chemical Company, Limited	200,000	1,000,000	July 3, 1912.
The Mooney Biscuit and Candy Co., Ltd.	250.000	1,000,000	August 19, 1912.
O.			
The Ontario Financial Company, Limited	40,000	80,000	April 25, 1912.
Oliver, Reid & Company, Limited	40,000	100,000	May 8, 1912.
O'Keefe Brewery Co., of Toronto, Ltd. ...	600,000	2,000,000	July 19, 1912.
P.			
The Preston Car and Coach Company, Limited	200,000	500,000	March 30, 1912.
R.			
Robinson Bros. Cork Company, Limited .	200,000	500,000	October 23, 1911.
The Robson Leather Company, Limited	200,000	750,000	November 28, 1911.
Russell Motor Car Company, Limited	1,600,000	2,000,000	February 19, 1912.
Rideau Canal Supply Company, Limited	100,000	200,000	June 4, 1912.
S.			
The Smith's Falls Electric Power Co., Ltd. ...	60,000	100,000	November 28, 1911.
Sudbury Brick Company, Limited	20,000	50,000	January 18, 1912.
The Sudbury Construction and Machinery Co., Ltd.	40,000	100,000	January 29, 1912.
Shevlin-Clarke Company, Limited	200,000	1,200,000	February 26, 1912.
St. Lawrence Paper Mills Co., Ltd.	1,000,000	2,000,000	April 11, 1912.
The Robert Simpson Company, Limited	2,500,000	15,000,000	April 20, 1912.
The Sault Ste Marie Skating Rink & Athletic Company, Limited	20,000	50,000	April 29, 1912.
Smallman & Ingram, Limited	500,000	1,000,000	May 25, 1912.

List of Companies whose Capital was Increased.—*Concluded.*

Name of Company.	From	To	Date
The Spanish River Pulp & Paper Mills, Ltd. ..	4,000,000	7,000,000	June 25, 1912.
The Sault Ste. Marie Coal & Wood Co., Ltd. ..	40,000	100,000	September 9, 1912.
The Sault Ste. Marie Dry Dock & Ship Building Company, Limited	1,000,000	1,200,000	June 11, 1912.
U.			
The Urban and Rural Telephone Co., Ltd.	4,000	8,000	December 14, 1911.
The Union Realty Company, Limited	50,000	110,000	January 20, 1912.
United Fuel Supply Company, Limited ..	500,000	1,350,000	March 25, 1912.
V.			
The Volcanic Oil and Gas Company, Limited .	500,000	1,500,000	March 21, 1912.
W.			
Western Canada Securities Co., Ltd.	100,000	700,000	October 2, 1912.
Wealthy Mines, Limited	1,000,000	3,000,000	October 18, 1912.
Weston Brick Company, Limited	100,000	300,000	October 19, 1912.

APPENDIX D.

List of Companies whose Names were Changed.

From	To	Date.
A.		
J. M. Archibald Co., Ltd.....	Archibald Cereal Co., Ltd.....	Dec. 15, 1911.
American-Abell Engine and Thresher Co., Ltd.	The Canadian Rumely Co., Ltd....	March 6, 1912.
American Securities Co., Ltd..	Colonial Bond Company, Ltd.	Aug. 29, 1912.
B.		
Burnett, Ormsby and Clapp, Limited	Ormsby, Clapp & Anderson, Ltd...	Oct. 27, 1911.
The Bowman-Gray Lumber Co. ...	The J. H. Bowman Lumber Company, Limited	Nov. 24, 1911.
Big Tooth Gold and Silver Mine, Limited	Holderer Gold Mines, Limited	Jan. 11, 1912.
The Berlin Soap and Specialty Co., Ltd.	Ideal Supply Company, Ltd...	Aug. 1, 1912.
C.		
Connor-Ruddy Co., Limited ..	E. L. Ruddy Company, Ltd...	Jan. 5, 1912.
Commercial Engineering Corporation, Limited	The Pearson Engineering Co., Ltd.	Jan. 30, 1912.
The Canadian Military Institute Company, Limited	The Canadian Military Institute, Limited	Feb. 15, 1912.
Chillas, Black, Limited	Black Building Supply Company, Limited	May 29, 1912.
The Canadian Prairie Securities Company, Limited	Mutual Securities, Limited ..	May 27, 1912.
The Carriage Mountings Co., Ltd..	Kinzinger, Bruce & Co., Ltd...	June 7, 1912.
Canadian American Gas and Gasoline Engine Co., Ltd..	Canadian Engines, Limited...	June 26, 1912.
The Church Printing and Supply Company, Limited	Parker Brothers, Limited ...	July 27, 1912.
The Connon Floral Company, Ltd.	John Connon Co., Limited ...	Aug. 6, 1912.
Canadian Union Land Co., Ltd.	Canadian Union Co., Limited.	Sept. 9, 1912.
The Canada Casket and Lumber Company, Limited	Lusty Lumber Co., Limited ..	April 18, 1912.
D.		
The Down Draft Furnace Co., Ltd.	The Galt Stove and Furnace Co., Limited	May 15, 1912.
The Dominion Sweets Co., Ltd.....	Beverley Sweets, Limited	July 15, 1912.
M. Davidson Co., Limited ...	Hallams, Limited	Sept. 4, 1912.
Dome Lake Company, Limited	Dome Lake Mining and Milling Company, Limited ...	Oct. 1, 1912.
E.		
The E. M. F. Company of Canada, Limited	The Studebaker Corporation of Canada, Limited	May 7, 1912.
Electrical Contractors Supply Corporation, Limited	E. A. Greene Co., Limited ...	Sept. 30, 1912.
F.		
Flavelles Silverwood, Limited	Silverwoods, Limited	June 27, 1912.

List of Companies whose Names were Changed.—*Continued.*

From	To	Date.
G.		
Gooderham, W. H., Limited..	Industrial Motor Trucks, Limited.	Feb. 7, 1912.
Gordon & Gotch (Imperial Press Agency), Limited..	Gordon & Gotch (Canada), Limited	March 6, 1912.
The W. E. Grierson Co., Limited.	Summit Park Land Co., Ltd...	Oct. 16, 1912.
H.		
Hunters Garage, Limited	Western Ontario Motor Sales, Limited	April 30, 1912.
I.		
The International Mining and Information Company, Ltd..	Metals-Chemical Co., Ltd. ...	Feb. 15, 1912.
Iron Clad Manufacturing Company of Canada, Limited.	Northern Steel Company, Ltd.	July 2, 1912.
J.		
James Bay Gold Mining and Development Co., Ltd.	Porcupine Calumet Gold Mines, Limited	Jan. 19, 1912.
L.		
Lake Superior Iron & Steel Company, Limited	Algoma Steel Corporation, Ltd	April 1, 1912.
Lake Shore Construction Company, Limited	The Lansdowne Lumber Co., Ltd...	Oct. 3, 1912.
M.		
Mortimer, William C., Co., Ltd.	Charles A. Starr Co., Ltd.	Dec. 5, 1911.
The Monarch Realty Company, Ltd.	The Monarch Realty & Securities Corporation, Limited	Feb. 9, 1912.
McLuckie, Maxwell & Co., Ltd.	Maxwell & Company, Limited.	May 7, 1912.
The Markham & Pickering Telephone Company, Limited .	The Home Telephone Co., Ltd. ...	June 19, 1912.
The Martin Trunk Company, Ltd. .	Quinte Manufacturing Co., Ltd	July 29, 1912.
Mageau Serre, Limited	The Nipissing Wine & Spirit Company, Limited	Aug 14, 1912.
N.		
Noiseless Typewriter Co., Ltd..	Silent Typewriter Co., Ltd. ..	Mar. 18, 1912.
National Sales Company, Ltd..	National Products, Limited ...	July 18, 1912.
O.		
The Ontario Vacuum Cleaner Company, Limited	The Premier Vacuum Cleaner Company, Limited	Feb. 5, 1912.
P.		
Peerless Porcupine Mines, Ltd	Porcupine Contract Gold Mines. Limited	Oct. 27, 1911.
The Porcupine Bristol Gold Mining Company, Limited	Porcupine Union Mines, Ltd. .	Jan. 4, 1912.
Porcupine Merger Mines, Ltd..	The Hesvake Mining Co., Ltd. ...	Mar. 5, 1912.
R.		
Robertson Cull Gordon, Ltd...	J. M. Robertson & Co., Ltd. ..	April 4, 1912.
The Rosedale Motor Company, Ltd.	Cole Motors, Limited	Sept. 17, 1912.

List of Companies whose Names were Changed.—*Concluded.*

From	To	Date.
S.		
Stone, William, Sons & Company, Limited	Wm. Stone Sons, Limited	Dec. 21, 1911.
Stronachs, Limited	Lemon-Thomson, Limited	Feb. 15, 1912.
St. Mary's Quarries, Limited	The Thames Quarry Co., Ltd.	July 15, 1912.
T.		
The Tait Carss Lumber Co., Ltd.	The S. E. Carss Lumber Co., Ltd.	Dec. 18, 1911.
The Toronto Paper Box Co., Ltd.	Collett-Sproule, Limited	Mar. 18, 1912.
Tate-Sellew Motors, Limited	Tate Electrics, Limited	May 27, 1912.

List of Companies whose Powers were Extended.

Name of Company.	Date.
A.	
American Eagle Mining Company, Limited (to keep its books outside of the Province of Ontario)	March 26, 1912.
American Radiator Company of Canada, Limited (to keep its books without the Province of Ontario)	May 21, 1912.
The Alliance Investment Company (Canada), Limited (extending its powers)	July 31, 1912.
Algoma Steel Corporation, Limited (to hold meetings of its directors and shareholders outside of the Province of Ontario)	April 1. 1912.
C.	
The Canadian Military Institute, Limited (extending its powers)	Feb. 15, 1912.
Canadian Mining and Exploration Company, Limited (to keep its books outside the Province of Ontario)	May 30, 1912.
The Consumers' Gas Company of Wallaceburg, Limited (amending and varying its Letters Patent)	June 13, 1912.
D.	
The Dominion Stamping Company, Limited (converting common stock into preferred stock)	July 31, 1912.
F.	
The Fort Erie Beach Realty Company, Limited (to keep its books outside the Province of Ontario)	Jan. 16, 1912.
G.	
Gasolectric Motors, Limited (extending its powers)	Feb. 13, 1912.
The Gold Pyramid Mining Company of Larder Lake, Limited (to keep its books outside the Province of Ontario)	March 11, 1912.
The Glen Woollen Mills, Limited (to hold meetings of its shareholders or directors outside the Province of Ontario)	June 20, 1912.

List of Companies whose Powers were Extended.—*Concluded.*

Name of Company.	Date.
H.	
Hughes Porcupine Mines, Limited (to keep its books outside the Province of Ontario)	Dec. 14, 1911.
I.	
Iroquois Porcupine Mining Company, Limited (to keep its books outside the Province of Ontario)	March 5, 1912.
The Imperial Steel and Wire Company, Limited (amending and varying its provisions and its Supplementary Letters Patent)	May 24, 1912.
	May 7, 1912.
J.	
Jack Fish Mines, Limited (to keep its books outside the Province of Ontario)	June 10, 1912.
Jupiter Mines, Limited (to hold meetings of its directors or shareholders outside the Province of Ontario)	July 11, 1912.
K.	
Kenroy Gold Mines, Limited (to keep its books outside the Province of Ontario)	April 3, 1912.
P.	
The Pennsylvania Mines Company, Limited (to keep its books outside the Province of Ontario)	Nov. 4, 1911.
Porcupine Veterans Exploration Company, Limited (to keep its books outside the Province of Ontario)	Nov. 21, 1911.
Porcupine Krist Mines, Limited (to keep its books outside the Province of Ontario)	June 12, 1912.
Penn-Canadian Mines, Limited (to keep its books outside the Province of Ontario)	July 4, 1912.
Porcupine Golden Quill Mining Company, Limited (to keep its books outside the Province of Ontario, and to hold meetings of its directors, shareholders or executive committees outside the Province of Ontario)	Sept. 10, 1912.
	Aug. 27, 1912.
Pittsburg Lamp, Brass and Glass Company of Canada, Limited (to keep its books outside the Province of Ontario)	October 5, 1912.
S.	
The Spanish River Pulp and Paper Company, Limited (redistribution of shares and decrease of capital)	Nov. 6, 1911.
Wm. Stone, Sons, Limited (extending powers)	Dec. 22, 1911.
The Scarboro' Securities, Limited (extending powers)	June 21, 1912.
The Superior Rolling Stock Company, Limited (to hold meetings of its shareholders or directors outside the Province of Ontario)	July 15, 1912.
T.	
Toronto City Estates, Limited (amending their Letters Patent)	Nov. 20, 1911.
The Toronto News Company, Limited (to hold meetings of its shareholders outside the Province of Ontario)	Nov. 27, 1911.
Tate Electrics, Limited (extending their powers)	May 28, 1912.
Tagona Water and Light Company (to hold meetings of its directors or shareholders outside the Province of Ontario)	July 16, 1912.
W.	
The West Williams Rural Telephone Association (varying terms of its Letters Patent)	Oct. 27, 1911.
The Western Fancy Goods Company, Limited (extending the powers)	March 18, 1912.
The Wilkie Realty and Development Company, Limited (reconstituting its provisional directors)	Sept. 19, 1912.

List of Companies Without Share Capital.

Name of Company.	Place.
Temple Club	Welland.
The Ontario Society of Domestic, Sanitary and Heating Engineers	Toronto.
The Brantford Hebrew Association	Brantford.
The Toronto Checker Club	Toronto.
Good Times Fishing Club	Guelph.
The Ruthenian National Society	Toronto.
The Toronto Hotel-Keepers' Association	Toronto.
The Independent Bread-Drivers' Union	Toronto.
The Congregation of Teferis Wisrual Beker Chiloun Unshid of Astrovtsa	Toronto.
The Ontario Board of Mennonite Finance	Berlin.
Canadian National Automobile Association	Toronto.
The Brunswick Bowling and Athletic Club	Toronto.
Toronto Osteopathic Association	Toronto.
The Borden Conservative Club, of Brantford	Brantford.
The Ottawa Association for the Blind	Ottawa.
Kneseth Israel Congregation	Toronto.
The Azulykit Klub	Toronto.
The Borden Club, of South Wellington	Guelph.
The County of Renfrew Law Library Association	Pembroke.
Beni Mosha Congregation	Toronto.
The Toronto Chess Club	Toronto.
The Shantymen's Christian Association	Toronto.
The Supreme Divan of Faithful Turks	Stratford.
Evangelical Publishers	Toronto.
Tamahaac Club	Hamilton.
Alliston Athletic Club	Alliston.
Toronto Motorcycle Club	Toronto.
The University Club, of Toronto	Toronto.
The Hanover Recreation Association	Hanover.
The Empire Club of Canada	Toronto.
Toronto Boys' Dominion	Toronto.
The Ottawa Graduate Nurses' Association	Ottawa.
The East End Social and Athletic Club	Ottawa.
The Local Live Stock Shippers' Association, of Ontario	Toronto.
Canadian Suffrage Association	Toronto.
The Builders' Exchange, of the City of Hamilton	Hamilton.
The Confederation Park Association, of West Monkton, Ontario	West Monkton.
Union Club, of Hamilton	Hamilton.
The Business Science Club, of Toronto	Toronto.
The Bowmanville Hospital	Bowmanville.
Jewish National Labor Alliance	Hamilton.
Toronto Ad. Club	Toronto.
The Welland Fruit Growers' Association	Marshville.
The Children's Aid Society, of the County of Kent	Chatham.
Quigley Cheese Manufacturing Association	Lochiel.
The B'Nei Abraham Congregation	Toronto.
The Shanghai Club	Toronto.
The Burlington Lawn Bowling Club	Burlington
Cadillaqua Club	Windsor.
The International Chinese Club	Toronto.
The Ontario Retail Grocers' Association	Toronto.
North Toronto Lawn Bowling Club	North Toronto.
Brookfield Athletic Club	Toronto.
Springside Cottagers' Association	Huntsville.
Temiskaming Farmers' Co-operative Association	New Liskeard.
Milton Fruit Growers' Association	Milton.
Bishop Sweatman School	Weston.
The Walpole Fruit Growers' Association	Hagersville.
Brighton Fruit Growers' Association	Brighton.
The Berlin Sanitarium Association	Berlin.

List of Companies whose Charters were Surrendered.

Name of Company.	Date.
Le Bel-Turnbull Lumber Company, Limited	Nov. 7, 1911.
The Northern Dredging Company, Limited	Nov. 14, 1911.
Manufacturers' Auxiliary Company, Limited	Dec. 12, 1911.
The Fisher Company, Limited	Dec. 29, 1911.
The Chatham Wagon Company, Limited	Jan. 2, 1912.
The Canadian Street Car Advertising Company, Limited	Dec. 29, 1911.
Johnston Brothers, Limited	Dec. 29, 1911.
Imperial Vacuum Machinery Company, Limited	Jan. 9, 1912.
The North Lake Mineral Land Company, of Ontario, Limited	Feb. 2, 1912.
Canada International Gas Company, Limited	Feb. 2, 1912.
Oil and Gas Producers, Limited	Feb. 9, 1912.
The Durham Rubber Company, Limited	Jan. 16, 1912.
The Bow Park Company, Limited	Feb. 23, 1912.
Weber Bros., Limited	Mar. 4, 1912.
The Owen Sound Dredge and Construction Company, Limited	Mar. 1, 1912.
The Aubin Company, Limited	Mar. 8, 1912.
The Kent Mills Company, Limited	Mar. 11, 1912.
The Foster Pottery Company, Limited	Mar. 15, 1912.
The Toronto Golf Association, Limited	Mar. 11, 1912.
Miller Flatstone Mines, Limited	Mar. 11, 1912.
The Schierholtz Zinkann Company, Limited	Mar. 29, 1912.
The Dalton Cattle Company, Limited	Mar. 29, 1912.
Toronto Arena Company, Limited	April 4, 1912.
Stuart Exploration Syndicate, Limited	April 4, 1912.
The Vermilion Mining Company, of Ontario, Limited	April 11, 1912.
The North Bay Roller Rink and Amusement Company, Limited	April 12, 1912.
The Falls City Lumber Company, Limited	May 3, 1912.
Ridgetown Fuel Supply Company, Limited	May 17, 1912.
Madeleine River Timber Company, Limited	May 10, 1912.
The Atlas Table Company, Limited	May 17, 1912.
The Young Men's Hebrew Association	June 1, 1912.
The Dominion Rock Drill and Foundry Company, Limited	June 28, 1912.
The Niagara Quarry Company, Limited	June 28, 1912.
The Standard Lumber and Stone Company, Limited	July 5, 1912.
Wm. Barber & Bros., Limited	July 30, 1912.
Canada Coating Mills, Limited	July 30, 1912.
The Wilmerhill Manufacturing Company, Limited	Aug. 7, 1912.
The Borthwick Baking Company, Limited	Aug. 15, 1912.
McFarlane & Douglas, Limited	Aug. 23, 1912.
The Riverside Land Company, Limited	Sept. 6, 1912.
Saline Lumber Company, Limited	Nov. 1, 1912.
The Oakview Telephone Company, Limited	Oct. 11, 1912.
The Miller Hardware Specialty Company, Limited	Oct. 7, 1912.
The Ottawa Dairy Company, Limited	Oct. 4, 1912.
The North Bay Opera House Company, Limited	Oct. 4, 1912.
The Reid Featherbone Manufacturing Company, Limited	Oct. 11, 1912.
The Doolittle Rim Company, Limited	Nov. 4, 1912.
Southam Press, Limited	Nov. 11, 1912.
Etobicoke Land Company, Limited	Nov. 4, 1912.

Proclamations Gazetted.

1912.

Re Neutrality *re* War between Italy and Turkey, Nov. 4, Nov. 11.
Re Little Nipissing Silver Cobalt Mining Company, Limited, Nov. 11, Nov. 18, Nov. 25.
Re Calling Legislative Assembly for despatch of business, Nov. 13, Nov. 18, Nov. 25, Jan. 18.
Re Incorporation of townsite of Sioux-Lookout, Dec. 23, Dec. 30, Jan. 6, Feb. 17.
Re Incorporation of townsite of Timmins, Feb. 24, March 2, Jan. 6.
Re Convening of the Legislative Assembly, Jan. 20, Jan. 27, Feb. 3.
Re Statute Law Amendment Act, 1911, Jan. 20, Jan. 27, Feb. 3.
Re Murder of one Michael Pappa, Jan. 27, Feb. 3, Feb. 10.
Re Ontario Railway Amendment Act, 1910, Feb. 3, Feb. 10, Feb. 17.
Re Incorporation of townsite of Matheson, March 2, March 9, March 16.
Re Arrest and conviction of Dr. B. E. Hawke, March 16, March 23, March 30.
Re Murder of one Joseph Rosenthal, April 13, April 20, April 27.
Re Murder of Rebecca Berger, April 13, April 20, April 27.
Re Act respecting "Surveys and Plans of Lands in certain Cities and their suburbs, April 23, April 27, May 4, May 11.
Re Incorporation of town of Berlin, June 8, June 15, June 22.
Re Arrest and conviction of Big Frank, June 29, July 6, July 13.
Re The Public Works Peace Preservation Act, June 29, July 6, July 13.
Re Act for the better administration of justice to lessen number of appeals and cost of litigation, July 6, July 13, July 20.
Re Act to amend the Liquor License Act, July 27, Aug. 3, Aug. 10.
Re Arrest and conviction of James A. Ogilvie, Aug. 10, Aug. 17, Aug. 24.
Re Arrest and conviction of John R. Bennett, Sept. 14, Sept. 21, Sept. 28.
Re Thanksgiving Day, 1912, Oct. 12, Oct. 19, Oct. 26, Nov. 4.

Supplementary Licenses.

Name of Company.	Date.
Oneida Community, Limited. Increasing the amount of Capital which it may use in Ontario from $50,000 to $150,000	Jan. 23, 1912.
Pintsch Compressing Company. Increasing the amount of Capital which it may use in Ontario from $40,000 to $100,000.	Mar. 15, 1912.
The American Thread Company. Increasing the amount of Capital which it may use in Ontario from $10,000 to $40,000	Mar. 15, 1912.
Wm. Wrigley, Jr., Company. Increasing the amount of Capital which it may use in Ontario from $40,000 to $600,000	Mar. 13, 1912.
The Canadian Colored Cotton Mills Company, Limited. In Ontario, the name to be Canadian Cottons, Limited	Mar. 14, 1912.
The Columbia Phonograph Company (General). Increasing the amount of Capital which it may use in Ontario from $10,000 to $50,000	Mar. 21, 1912.
National Spring and Wire Company. Increasing the amount of Capital which it may use in Ontario from $10,000 to $100,000.	Mar. 25, 1912.
The Quaker Oats Company. Increasing the amount of Capital which it may use in Ontario from $1,250,000 to $2,000,000	Feb. 29, 1912.
Johnson & Carey Company. Increasing the amount of Capital which it may use in Ontario from $12,000 to $100,000	Mar. 19, 1912.
The Canadian Gold and Silver Mining Company. To use two million dollars of its Capital in Ontario	April 9, 1912.
International Acheson Graphite Company. Increasing the amount of Capital which it may use in Ontario from $40,000 to $80,000	Mar. 26, 1912.
The Crown Cork and Steel Company, of Baltimore City, trading in Ontario under the name of Aluminum and Crown Stopper Company. Increasing the amount of Capital which it may use in Ontario from $300,000 to $500,000	May 1, 1912.
The National Cash Register Company. Increasing the amount of Capital which it may use in Ontario from $90,000 to $150,000.	July 4, 1912.
Stewart Hartshorn Company. Increasing the amount of Capital which it may use in Ontario from $25,000 to $100,000	July 16, 1912.
The Oriental Carpet Manufacturers, Limited. Increasing the Capital which it may use in Ontario from £8,000 to $250,000	July 30, 1912.

List of Companies authorized to issue Share Warrants.

Name of Company	Date
The Achilles Mines, Limited	Nov. 2, 1911.
The O'Keefe Brewery Company, of Toronto, Limited	July 19, 1912.
Red Cliffe Gold Mining Company, Limited	Jan. 6, 1912.

List of Companies whose Capital has been Decreased.

Name of Company.	From.	To.	Date.
The Erie Ice Company, Limited	$40,000	$11,505	Dec. 6, 1911.
Fairbanks-Morse Canadian Mfg. Co., Ltd.	500,000	10,000	Jan. 4, 1912.
Thames Valley Garden Land Co., Ltd.	900,000	400,700	Feb. 1, 1912.
The Light, Heat & Power Co., of Lindsay, Ltd.	300,000	150,000	Feb. 29, 1912.
Robins, Limited	500,000	50,000	Mar. 2, 1912.
Northern Ventures, Limited	5,000,000	500,000	May 10, 1912.
The Broadview Hotel Company, Limited	100,000	50,000	July 12, 1912.

APPEN

Comparative Statement showing the work done in the

Work Done.	1881	1888	1891	1894	1897	1898	1899	1900	1901	1902
Letters Patent and Licenses....	119	117	152	139	358	295	416	438	516	530
Supplementary Letters Patent, etc.....	.....	19	16	11	18	18	10	29	31	43
Marriage Act Forms, etc., issued	27,822	29,911	28,300	37,459	34,045	28,697	31,467	67,520	64,948	106,955
Commissions: Great and Privy Seals	275	534	297	338	225	169	284	281	420	234
Fees received	$7,021	$9,190	$9,193	$12,400	$39.286	$28,520	$67,851	$76.997	$88,643	$107,569.91
Ontario Gazette Proclamations published	17	13	10	6	9	9	9	9	10	17
Appointments gazetted	525	541	468	497	401	430	575	465	451	272
Public Notices.....	127	150	179	163	400	282	465	472	650	590

DIX P.

Provincial Secretary's Office during the years specified.

1903	1904	1905	1906	1907	1908	1909 (10 mos.)	1910	1911	1912
578	624	762	928	979	801	828	1,110	1,211	1,288
90	49	66	117	88	123	170	111	118	88
121,000	74,112	118,330	80,798	88,819	86,292	90,920	94,826	87,234	56,264
226	320	366	430	289	629	321	342	381	384
$120,513.07	$101,051.91	$131,914.91	$207,054.09	$255,803.68	$171,371.48	$209,037.80	$241,271.81	$321,553.79	$340,802.31
21	19	14	15	13	14	18	11	10	12
230	320	537	626	581	733	519	565	535	546
668	673	828	1,045	1,067	924	998	1.221	1,329	1,376

REPORT

RELATING TO THE REGISTRATION OF

Births, Marriages and Deaths

IN THE

PROVINCE OF ONTARIO

FOR THE

Year Ending 31st December,

1912

(Being the 43rd Annual Report)

PRINTED BY ORDER OF

THE LEGISLATIVE ASSEMBLY OF ONTARIO

TORONTO:
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1913.

Printed By
WILLIAM BRIGGS
29-37 Richmond St. W
TORONTO

To His Honour the Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

I herewith beg to present for your consideration the Forty-Third Annual Report of the Registrar-General, relating to the Registration of Births, Marriages and Deaths in the Province of Ontario, during the year 1912.

Respectfully submitted,

W. J. HANNA,

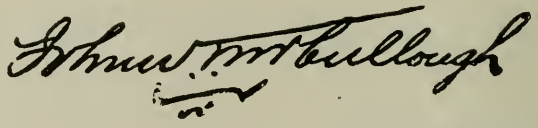
Registrar-General of Ontario.

SIR:—

I have the honour to submit for your approval the Forty-Third Annual Report made in conformity with and under the provisions of The Act respecting the Registration of Births, Marriages and Deaths in the Province of Ontario, for the year ending December 31st, 1912.

I have the honour to be, Sir,

Your obedient servant,



Deputy Registrar-General.

To HON. W. J. HANNA,
Registrar-General of Ontario.

REPORT UPON

Births, Marriages and Deaths

FOR THE YEAR 1912

The Forty-third Annual Report of vital statistics for the Province of Ontario for the year ending December 31st, 1912, shows an increase in the number of Births, Marriages and Deaths registered.

During the year, 119,865 registrations were received as follows:

Births	58,870
Marriages	28,845
Deaths	32,150
	119,865

This is an increase of 6,124 over 1911.

From the cities the number of registrations was as follows:

Births	22,929
Marriages	15,917
Deaths	12,526
	51,372

From towns of over 5,000 population.

Births	3,913
Marriages	2,018
Deaths	2,446
	8,377

Leaving, for the rural municipalities of the Province as follows:

Births	32,028
Marriages	10,910
Deaths	17,178
	60,116

NOTE.

In considering the number of births and deaths in the Province and all statistics relating thereto, it is to be borne in mind that still-births are excluded.

Heretofore, it has been customary in our annual reports to include still-births in all totals and calculations. A careful survey, however, of the various reports of vital statistics from such countries as the United Kingdom; the United States: the Australian colonies: New Zealand, etc., show that still-births are excluded from all statistics and it is thought that for uniformity with other countries, still-births should be excluded as a cause of death in Ontario.

For the sake of comparison with other years the following table showing the total Births and Deaths in Ontario, excluding still-births, for each of sixteen years, and the ratio per 1,000 of population is appended.

——	Births.	Ratio.	Deaths.	Ratio.
1897	46,868	20.7	26,508	11.7
1898	46,067	20.4	25,409	11.1
1899	44,286	19.4	27,747	12.4
1900	45,549	19.8	28,543	12.2
1901	45,281	21.1	28,500	13.0
1902	46,973	21.7	26,713	12.1
1903	47,709	22.1	28,399	12.9
1904	49,158	22.8	29,600	13.4
1905	50,808	23.5	29,748	13.4
1906	50,621	23.3	31,244	14.1
1907	52,289	24.1	31,756	14.3
1908	54,878	25.6	30,947	13.8
1909	53,448	24.3	30,792	13.7
1910	54,755	24.9	31,332	13.9
1911	56,096	22.6	31,878	12.6
1912	58,870	22.4	32,150	12.4

BIRTHS.

The number of births registered was 58,870, with a ratio of 22.4 per 1,000 of population, being an increase of 2,774 for the year in the number of births and a decrease of .2 in the rate per 1,000 of population. The cities contributed 38.9 per cent. of the whole number and the towns of 5,000 population, 6.6 per cent. The district of Thunder Bay gave the highest ratio per 1,000 of population, viz.: 33.0 and the District of Kenora gave the lowest, 13.7.

ILLEGITIMATE BIRTHS.

The total number was 1,256, as compared with 1,087 for 1911. This was at the rate of 21.3 for every 1,000 births. The Cities contributed over 72 per cent. of this illegitimacy.

The ratio of illegitimacy per 1,000 births is highest in the City of Ottawa where it amounts to a ratio of 86.1 per 1,000, while in Toronto with a population over four times greater, the ratio of illegitimacy is but one half that of Ottawa, while Kingston's ratio is 58.5 and London's 63.2. Hamilton is better off with 25.8.

In regard to the mothers of such infants, 324 were unfortunately not classified. It is interesting to note that 335 were domestics. 36 were living at home. 34 were factory hands, 20 were housekeepers, 16 widows, 19 operators, 14 waitresses, 12 stenographers, 12 salesladies, 15 classified as clerks, and the balance among various occupations.

MARRIAGES.

The number of marriages registered during the year was 28,845 being a ratio of 11.1 per 1,000 of population. There were 3,038 more marriages in 1912 than in the previous year, an increase of 0.9 in the rate per 1,000.

The number of marriages in the city municipalities was 15,917 or 55.4 per cent. of the whole, being a ratio of 18.2 per 1,000. The greatest number of these

took place in the City of Toronto. The City of Windsor came next with 3,429 marriages which was a ratio of 176.2 per 1,000. As this rate is so greatly in excess of the rate for any other municipality it is but fair to explain that 92.3 per cent. of these marriages were of parties from the United States. The number of marriages in this city was 655 in excess of that of the preceding year.

The following table shows the number of marriages in this city (Windsor) for the last five years:

1908.....1,564, an increase of 2 over 1907.
1909.....1,918, an increase of 354 over 1908.
1910.....2,293, an increase of 375 over 1909.
1911.....2,774, an increase of 481 over 1910.
1912.....3,429, an increase of 655 over 1911.

Two thousand, nine hundred and thirty-six, or 85.6 per cent. of the total number of marriages performed in Windsor in 1912 were performed by eight clergymen.*

Of all marriages, 26,826 or 93 per cent. were solemnized under authority of license. The remainder, 7 per cent., were authorized by the publication of banns.

The following tables show a recapitulation by Denominations and Ages:

Denomination.	Grooms.	Brides.	Total.	% of Total Marriages.
Methodist	7,642	7,623	15,265	26.46
Anglican	5,775	5,878	11,653	20.20
Presbyterian	5,680	5,465	11,145	19.32
Roman Catholic	4,250	4,526	8,776	15.21
Baptist	1,888	1,906	3,794	6.58
Lutheran	1,180	1,167	2,347	4.07
Congregational	374	349	723	1.25
Hebrew	368	329	697	1.21
Evangelical Association	161	189	350	.61
Salvation Army	125	132	257	.44
Other denominations	1,267	1,167	2,434	4.22
Not stated	135	114	249	.43

Ages.	Grooms.	Brides.	Total.	% of Total Marriages.
15–19	546	5,768	6,314	10.94
20–24	10,743	11,517	21,990	38.12
25–29	9,025	6,273	15,298	26.52
30–34	4,108	2,496	6,604	11.45
35–39	2,001	1,211	3,212	5.57
40–44	998	675	1,673	2.90
45–49	631	386	1,017	1.76
50–54	436	200	636	1.10
55–59	264	115	379	.66
60–64	191	67	258	.45
65–69	83	31	114	.20
70 and over	81	13	94	.16
Age not stated	8	93	101	.17

*At the last session of the Legislature an amendment to The Marriage Act was passed, providing that one of the parties to the proposed marriage must have resided in the city, county or district where the marriage is to be solemnized, for 15 days immediately preceding the issue of the license, otherwise the intention to marry must be advertised in a local paper for three weekly issues. In certain cases the Registrar General may give a permit to issue the license.

For the manner in which the marriages took place in regard to denominations (mixed marriages) and as to the ages, see pages 70-158 of the Report.

Of marriages between Roman Catholics and other denominations, 820 men, married outside their own faith, while 1,096 women, so married.
Taken together 78.1 per cent. married in their own faith and 21.9 married otherwise, being 0.6 per cent. less than in 1911.

It is interesting to note the marriages by ages. The great marrying age is in the twenties for both sexes. 38.12 per cent. married between 20 and 24 and 26.52 per cent. between 25 and 29, or almost two-thirds of all marriages occur at these ages.

In noting the difference of ages in some couples, one man of 25-29 married a woman over 70, one 30-34 a woman over 65, one 45-49 a woman over 70. Five men over 50, one over 60, one over 70 married women 15-19. One woman 20-24, two 25-29, two 30-34 married men over 70. So much for the disparity in a few cases.

DEATHS.

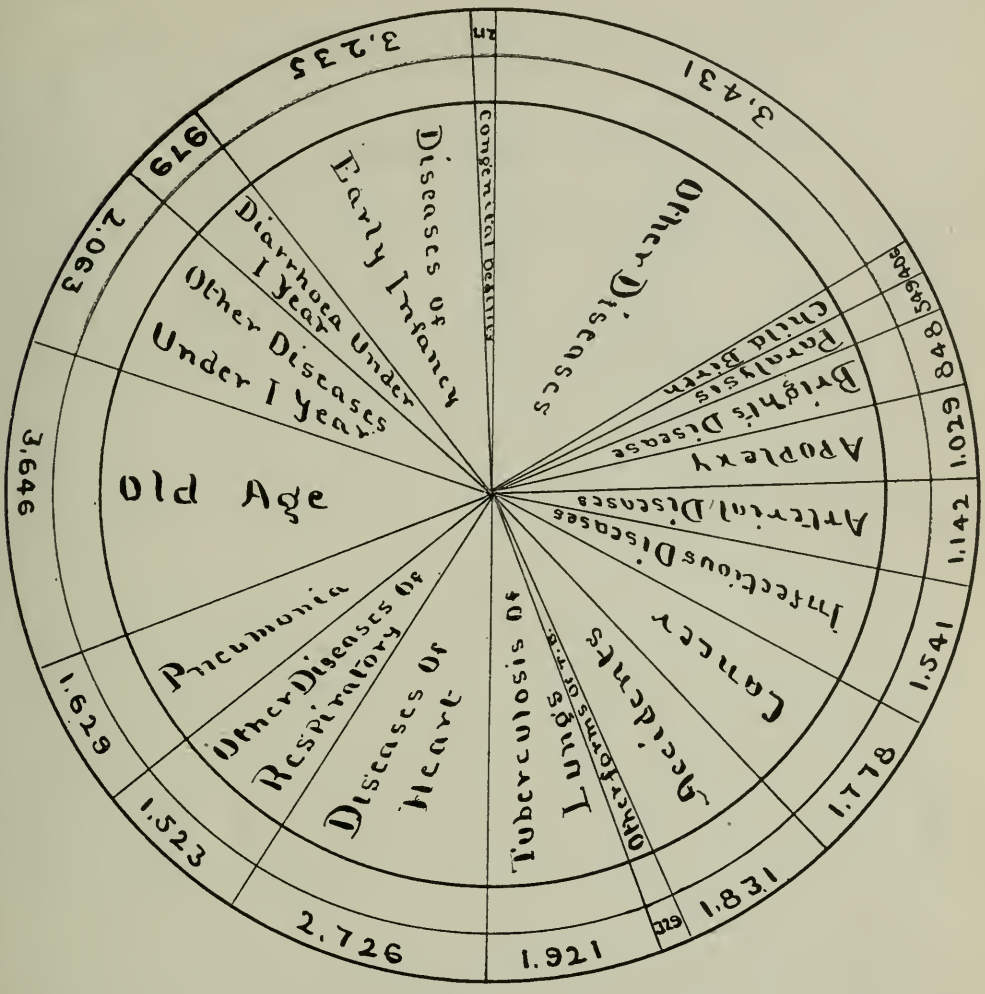
The number of deaths registered for the year was 32,150 a ratio of 12.4 per 1,000 of population. This was an increase of 272 deaths, but in the ratio there was a small decrease.

The following table shows the diseases causing the ten highest rates of mortality:

Organic heart diseases	2,726	or 8.47%	of total deaths.
Tuberculosis, all classes	2,250	" 7.00%	"
Cancer, all classes	1,778	" 5.53%	"
Pneumonia	1,629	" 5.06%	"
Infantile diarrhoea	1,146	" 3.56%	"
Diseases of the arteries	1,142	" 3.55%	"
Cerebral hoemorrhage	1,029	" 3.20%	"
Bright's disease	848	" 2.63%	"
Paralysis	549	" 1.70%	"
Typhoid fever	483	" 1.50%	"

Comparing the above list with last year's list of ten causes it is interesting to note that the same diseases are the ones giving the greatest mortality in almost the same order. The first five occupy the same position as in last year's list, but in the above 6 and 7 have reversed places and 9 and 10.

The following diagram shows the principal causes of death in relation to total deaths:



The divisions represent the following:

Deaths under 1:	
Congenital debility and malformations	217
Diseases of early infancy	3,235
Diarrhœa	979
Other causes	2,063
Old age	3,646
Diseases of respiratory system, pneumonia excepted	1,523
Pneumonia	1,629
Diseases of the heart	2,726
Tuberculosis of the lungs	1,921
All other forms	329
Accidents	1,831
Cancer, all forms	1,778
Infectious diseases	1,541
Diseases of the arteries	1,142
Apoplexy	1,029
Bright's disease	848
Paralysis	549
Puerperal	406
All other causes	4,758

The following table shows the deaths from five of the most active causes of death, for a decade.

Year.	Cancer.	Diphtheria.	Bright's Disease.	Heart Disease.	Typhoid Fever.
1903.....	1,156	687	519	2,174	391
1904.....	1,253	608	523	1,973	482
1905.....	1,224	503	739	1,942	446
1906.....	1,411	423	855	1,890	891
1907.....	1,329	380	888	2,227	520
1908.....	1,348	450	786	1,994	662
1909.....	1,597	430	817	2,149	669
1910.....	1,587	435	775	2,240	706
1911.....	1,602	423	814	2,433	637
1912.....	1,778	371	848	2,726	483
Totals.....	14,285	4,710	7,564	21,748	5,887

Of the 32,150 deaths 12 were reported without stating the sex leaving a balance of 32,138 divided as follows: 17,434 males and 14,704 females or 118.5 males for every 100 females.

Cancer continues to take a high toll of life. There were 176 more deaths during the year than for 1911.

Bright's disease and diseases of the heart continue on the increase.

Typhoid fever it is good to note, has the lowest mortality that it has reached in nine years, due, no doubt, to the efforts of the local Boards of Health, in keeping a strict vigilance on the water supply of their respective municipalities, together with the care exercised by the people themselves in regard to sanitation. The greatest number of deaths in any one municipality from this cause took place in Carleton County were 101 or 20.9 per cent. of all deaths from typhoid occurred. Of this number, 98 are credited to the city of Ottawa which had an epidemic due to pollution of its water supply occurred.

There were 1,146 deaths during the year from Infantile Diarrhœa, a decrease of 221 below that of 1911. This falling off may be accounted for, in a measure at least, by the cool and wet summer.

Of this number 69.11 per cent. were in the cities, and towns of over 5,000 population: the balance in the rural municipalities.

The number of deaths due to external causes was 1,831. Of these 78 per cent. were males and 22 per cent. females. The number of males is always larger from this cause as it is our men who fight the battles of life and engage in hazardous occupations. The largest number (335) was from crushing accidents, railways, motor-cars, mining accidents, etc. Drowning came next with 276. The largest number from any one place was 22 in the County of York, 15 being in the City of Toronto.

TUBERCULOSIS.

Tuberculosis still continues to engage the close attention of medical men and those who are interested individually or collectively in combatting the advance of this disease.

The number of deaths for 1912 was 2,250, being a decrease of 103 below that of 1911. Just about 7 per cent. of the total number of deaths were due to tuberculosis; the ratio per 1,000 of population being .87, which was a decrease of .05, below that of the previous year.

Sixteen counties show increases of 88 deaths and 27 counties show decreases of 191 being a net decrease of 103.

By ages the heaviest death rate occurs in the twenties. Over 28 per cent. of all deaths from tuberculosis occurred between 20-29, while over 48 per cent. occurred between 20-39.

During the five years 1908-1912 of 11,785 deaths 49.71 per cent. were males and 51.26 per cent. females.

Of the different classes of tuberculosis that of the lungs claimed 10,115 victims. Of these 4,900 or 48.4 per cent. of the total were males; and 5,215 or 51.56 per cent. females.

From a perusal of the following table it will be seen that the disease in this Province does not discriminate to any great extent between the sexes. The greatest difference occurs in deaths from the abdominal form where, of the total number for 5 years (428) 46.5 per cent. were males and 53.5 per cent. females.

Deaths from Various Forms of Tuberculosis by Sexes, for 5 years 1908-1912.

Forms of Tuberculosis.		Total.		1908.		1909.		1910.		1911.		1912.		Per Cent. of Total No.
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
	Totals.	11,785		2,511		2,380		2,291		2,353		2,250		
	11,785	5,744	6,041	1,167	1,344	1,111	1,269	1,123	1,168	1,175	1,178	1,168	1,082	
Tuberculosis of Lungs	10,115	4,900	5,215	969	1,160	931	1,086	988	1,025	1,012	1,023	1,000	921	85.83
Acute Miliary Tuberculosis	127	65	62	.....	.....	12	20	16	16	20	15	17	11	1.08
Tuberculous Meningitis	541	284	257	60	55	60	54	45	39	52	48	67	60	4.60
Abdominal Tuberculosis	428	199	229	39	38	57	49	25	40	43	56	35	47	3.63
Pott's Disease	51	29	22	4	4	4	7	7	4	6	3	8	4	.43
White Swellings	27	17	10	2	1	2	1	8	6	.....	.....	5	2	.23
Tuberculosis of other organs	382	200	182	53	39	41	47	31	36	39	30	36	30	3.24
Dissiminated Tuberculosis	114	50	64	40	47	4	5	3	2	3	3	.....	7	.96

While the ratio per 100,000 of population is but 5 less than for 1911, the fact that it is a decrease is the important point. During the decade the average annual increase in population was 1.5 per cent. Very many of our immigrants are of that class of Europeans who love to cluster in small spaces and live in conditions impossible to the Anglo Saxon; conditions which are most favorable to the propogation of this disease and yet in spite of all which has to be contended with, the death rate is decreasing. This fact speaks loudly for the anti-tuberculosis campaigns being waged against this scourge by individuals and associations, and for the education instituted by Boards of Health throughout the Province in the interests of sanitation and health.

The following table shows the deaths from tuberculosis for the last 10 years, by ages:

DEATHS IN ONTARIO FROM TUBERCULOSIS BY AGES, 1903-1912.

Year.	Total.	Under 5 years.					5–9	10–14	15–19	20–29	30–39	40–49	50–59	60–69	70–79	80 & over.	Not stated.	Total deaths from all causes.
		0–1	1	2	3	4												
	25,493	741	454	236	136	145	463	659	2,153	7,233	5,112	3,243	2,212	1,577	720	136	273	307,846
1903...	2,723	140	66	31	16	14	55	78	255	773	508	323	209	167	51	13	24	28,399
1904...	2,877	7	52	26	9	17	52	78	278	826	587	374	257	175	104	13	22	29,600
1905...	2,667	...	55	31	21	18	47	85	266	813	509	341	212	144	79	16	30	29,748
1906...	2,911	251	72	23	14	14	38	74	234	724	604	367	228	169	66	19	14	31.244
1907...	2,530	74	41	27	20	15	44	62	206	745	499	311	227	173	64	9	13	31,756
1908...	2,511	68	46	20	13	13	43	67	216	764	479	315	217	136	70	14	30	30,947
1909...	2,380	47	27	25	9	15	54	54	179	687	487	290	222	163	66	15	40	30,792
1910...	2,291	38	35	19	15	6	36	55	184	652	463	293	222	160	71	18	24	31,332
1911...	2,353	63	30	15	10	18	48	64	181	618	476	325	218	156	85	12	34	31,878
1912...	2,250	53	30	19	9	15	46	42	154	631	500	304	200	134	64	7	42	32,150

The following table of deaths from tuberculosis in the various occupations for the last eight years will be of interest.

TABLE SHOWING DEATHS FROM TUBERCULOSIS, BY OCCUPATION FOR 8 YEARS, WITH THEIR PERCENTAGE.

MALE OCCUPATIONS.

Occupations.	Deaths from All Causes.	Deaths from Tuberculosis.	Percentage.
Cigarmakers	100	46	46.0
Stonecutters	169	58	34.9
Stenographers	33	11	33.3
Street Railway Employees	85	27	31.7
Printers	264	80	30.3
Students	596	168	28.1
Bookbinders	51	13	25.4
Milkmen	33	8	24.2
Clerks	1,857	444	23.3
Laundry Hands	82	19	23.1
Telegraph Operators	124	28	22.5
Plumbers and Gasfitters	174	38	21.8
Upholsters	23	5	21.7
Architects	37	8	21.6
Barbers	258	54	20.8
Furriers	31	6	19.3
Electricians	162	32	19.1
Polishers and Grainers	64	12	18.7
Bookkeepers and Accountants	520	97	18.6
Chemists and Druggists	163	31	18.4
Machinists	671	122	18.1
Bartenders	143	25	17.4
Watchmakers and Jewellers	167	29	17.3
Dentists	75	13	17.3
Engineers	329	57	17.2
Bakers and Confectioners	252	43	17.0
Bankers	117	10	17.0
Painters and Decorators	714	122	17.0
Cheesemakers	66	11	16.6
Teamsters and Drivers	803	129	16.0
Cabinetmakers	211	34	15.9
Foremen	296	35	15.2
Tinsmiths	176	26	14.7
Moulders	334	49	14.6
Tailors	486	71	14.6
Commercial Travellers	449	65	14.4
Journalists and Reporters	76	11	14.4
School Teachers	281	40	14.2
Millwrights	37	5	13.5
Managers and Superintendents	160	21	13.1
Actors	8	1	12.5
Hucksters and Pedlars	97	12	12.3
Hunters and Fishermen	215	25	11.6
Soldiers	95	11	11.5
Factory Hands	401	45	11.2
Government Officials	287	32	11.1
Mechanics	530	62	11.0
Agents	729	70	10.9
Brewers and Distillers	37	4	10.8
Carriage and Wagonmakers	215	23	10.6
Laborers	14,011	1,491	10.6
Plasterers	159	17	10.6
Liverymen	86	9	10.4
Butchers	386	40	10.3
Harnessmakers	184	19	10.3
Servants, Porters, etc	528	54	10.2
Sailors	434	42	9.6

TABLE SHOWING DEATHS FROM TUBERCULOSIS, BY OCCUPATION FOR 8 YEARS, WITH THEIR PERCENTAGE.

MALE OCCUPATIONS.—*Continued.*

Occupations.	Deaths from All Causes.	Deaths from Tuberculosis.	Percentage.
Cooks	212	20	9.4
Music Teachers	139	13	9.3
Masons	543	50	9.2
Undertakers	55	5	9.0
Blacksmiths	799	71	8.8
Weavers	135	12	8.8
Merchants	2,008	173	8.6
Tanners and Curriers	70	6	8.5
Firemen	136	11	8.0
Shoemakers	637	49	7.6
Artists	67	5	7.4
Public Officials	500	37	7.4
Carpenters	2,322	171	7.3
Watchmen and Caretakers	220	16	7.2
Policemen	100	7	7.0
Brickmakers	73	5	6.8
Civil Engineers	175	12	6.8
Farmers	28,447	1,798	6.3
Gardeners	681	43	6.3
Lawyers	237	15	6.3
Miners	424	27	6.3
Builders and Contractors	520	31	5.9
Railroad Employees	1,669	98	5.8
Clergymen	504	29	5.7
Other Occupations	35,161	1,943	5.5
Manufacturers	391	21	5.3
Auctioneers	19	1	5.2
Lumbermen	473	25	5.2
Drovers	79	4	5.0
Hotelkeepers	414	21	5.0
Physicians	385	19	4.9
Brokers	69	3	4.3
Millers	295	12	4.0
Coopers	120	4	3.3

TABLE SHOWING DEATHS FROM TUBERCULOSIS, BY OCCUPATION FOR 8 YEARS, WITH THEIR PERCENTAGE.

FEMALE OCCUPATIONS.

Occupations.	Deaths from All Causes.	Deaths from Tuberculosis.	Percentage.
Telephone Operators	16	10	62.5
Factory Hands	130	66	50.7
Bookkeepers and Accountants	86	38	44.1
Students	272	118	43.3
Clerks	226	95	42.0
Stenographers	130	52	40.2
Nuns and Religious Sisters	113	37	32.7
School Teachers	307	99	32.2
Milliners	121	35	28.9
Dressmakers, Seamstresses and Tailoresses	643	180	27.9
Nurses	302	76	25.1
Weavers	16	4	25.0
Music Teachers	78	19	24.3
Laundry Hands	34	11	23.3
Telegraph Operators	10	2	20.0
Artists	10	2	20.0
Other Occupations and Occupations Unspecified	19,479	2,674	13.7
Cooks	65	8	12.4
Housewives	54,353	4,865	8.9
Forewomen	25	2	8.0
Domestics and Housekeepers	3,080	625	2.2

TABLE SHOWING DEATHS FROM TUBERCULOSIS, FOR TWENTY YEARS, PROVINCE OF ONTARIO, 1893-1912.

Year.	Deaths from Tuberculosis.	Decennial Census Year.	Ratio per 100,000 of Population.	Total Deaths from all Causes, Still-births excluded.	Percentage of Deaths from Tuberculosis in Census Years.
1893	2,552				
1894	2,379				
1895	2,472				
1896	2,922				
1897	3,154				
1898	3,291				
1899	3,405				
1900	3,484				
1901	3,243	2,184,144	148	28,500	11%
1902	2,694				
1903	2,723				
1904	2,877				
1905	2,667				
1906	2,911				
1907	2,530				
1908	2,511				
1909	2,380				
1910	2,291				
1911	2,353	2,523,274	92	31,878	7.37
1912	2,250		87		
	55,089				

TOTAL NUMBER OF DEATHS FROM TUBERCULOSIS IN EACH COUNTY IN ONTARIO FOR TEN YEARS, 1903–1912.

—	Total.	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912
Totals	25,493	2,723	2,877	2,667	2,911	2,530	2,511	2,380	2,291	2,353	2,250
Algoma	472	48	62	77	70	45	43	27	34	33	33
Brant	369	39	39	24	50	54	39	32	26	28	38
Bruce	558	46	75	65	48	66	68	43	64	47	36
Carleton	1,524	184	154	145	158	155	134	161	127	163	143
Dufferin	135	19	16	17	13	11	15	15	10	10	9
Elgin	291	20	40	42	38	20	33	28	18	26	26
Essex	670	70	86	54	81	66	67	63	62	60	61
Frontenac	606	75	69	64	59	72	47	43	58	63	56
Grey	577	59	73	73	80	61	43	55	58	32	43
Haldimand	160	22	17	26	12	10	13	14	13	18	15
Haliburton	45	3	7	4	4	7	4	4	4	3	5
Halton	176	18	20	20	29	12	14	13	17	17	16
Hastings	638	88	70	73	83	55	53	56	56	51	53
Huron	517	58	58	67	49	50	62	44	44	44	41
Kenora	42	.....	.....	.....	.....	.....	.....	13	6	16	7
Kent	596	55	67	64	96	59	48	53	52	51	51
Lambton	567	58	83	65	78	59	55	55	43	41	30
Lanark	416	46	48	46	48	39	49	46	37	30	27
Leeds and Grenville	929	100	115	102	109	96	66	86	77	82	96
Lennox and Addington	228	31	25	24	26	24	28	24	17	18	11
Lincoln	364	43	48	37	46	26	35	30	42	29	28
Manitoulin	14	.....	.....	.....	.....	.....	.....	2	2	3	7
Middlesex	1,134	120	155	126	145	103	118	88	85	99	95
Muskoka	366	32	33	39	24	33	39	41	34	44	47
Nipissing	329	28	21	36	41	38	39	25	24	35	42
Norfolk	221	34	21	24	29	13	23	31	15	17	14
Northumberland and Durham	555	71	58	56	57	64	63	48	49	45	44
Ontario	407	56	55	44	43	37	44	23	40	42	23
Oxford	445	47	41	51	47	55	50	37	38	43	36
Parry Sound	154	10	25	15	24	16	14	18	6	14	12
Peel	205	23	28	29	21	17	17	21	14	21	14
Perth	382	51	45	43	38	32	34	41	28	35	35
Peterboro'	435	44	54	42	51	44	41	47	39	37	36
Prescott and Russell	544	60	67	63	75	59	48	45	34	42	51
Prince Edward	175	28	26	19	16	13	18	17	14	11	13
Rainy River	124	15	11	25	14	20	18	4	4	6	7
Renfrew	386	55	53	38	52	37	28	35	24	31	33
Simcoe	838	101	88	89	109	73	82	82	82	67	65
Stormont, Dundas and Glengarry	919	109	149	86	85	100	102	81	66	83	58
Sudbury	68	.....	.....	.....	.....	.....	.....	22	18	10	18
Thunder Bay	327	25	29	26	34	38	26	32	44	38	35
Victoria	272	32	44	31	23	51	14	23	23	18	13
Waterloo	437	58	36	40	35	48	48	43	41	42	46
Welland	332	34	36	33	34	29	34	36	31	31	34
Wellington	486	57	56	60	52	42	49	41	40	50	39
Wentworth	1,164	93	135	111	132	97	122	128	127	107	112
York	4,894	458	439	452	553	484	524	464	504	520	496

INFANT MORTALITY.

The number of deaths of infants under 5 years of age in the Province was 8,230. Of this number, 6,494 died before completing the twelfth month. This was at a ratio of 110.3 per 1,000 births.

Table 13 shows the causes of death of all children under five years. Of those under one year, the greatest number of deaths occurred as follows: Epidemic Diseases, 455; Convulsions, 329; Respiratory Diseases, 673; Diarrhœa, 979; Congenital weakness, 3,101. There were over 200 less deaths this year from diarrhœa than in 1911. This was no doubt due to the cooler weather which prevailed during the summer of this year. In fact the number is smaller than it has been since 1907, when it was 919. The ratio of deaths per 1,000 births from diarrhœa for the period 1907-1912 was as follows:

1907	17.5	1910	22.6
1908	22.2	1911	21.1
1909	22.1	1912	16.6

It will thus be seen that the ratio as well as the actual number is considerably decreased. The interest being taken in child welfare and in conveying instructions to expectant mothers is no doubt assisting to lower the death rate of infants.

During the year there were 2,646 searches for records of Births, Marriages and Deaths, while certificates were supplied as follows: 689 birth, 215 marriage, and 407 death, 1,311 certificates in all.

26,826 marriage licenses were received and 2,019 certificates. These were bound by the Department for reference.

Approximately 50,000 births, 25,000 marriages and 30,000 death records were indexed for the same purpose.

TABLE No. 1.

Showing the number of Births, Marriages and Deaths, in the Province and in each County Municipality, together with the ratio per 1,000 of population. Also the estimated population for the Province, and for each municipality, 1912.

Counties.	Estimated Population.	Births. Excluding Still-Births.	Ratio per 1,000.	Marriages.	Ratio per 1,000.	Deaths. Excluding Still-Births.	Ratio per 1,000.
Totals	2,582,500	58,870	22.4	28,845	11.1	32,150	12.4
Algoma	44,300	849	19.1	403	9.0	470	10.6
Brant	46,840	1,160	24.7	467	9.9	567	12.1
Bruce	49,380	1,069	21.6	344	6.9	621	12.5
Carleton	119,640	2,993	25.1	1,221	10.2	1,933	16.3
Dufferin	17,500	321	18.3	130	7.4	166	6.6
Elgin	44,470	828	18.6	368	8.2	539	12.1
Essex	68,810	1,579	22.9	4,149	60.2	808	11.7
Frontenac	41,770	872	20.8	427	10.2	705	16.8
Grey	65,830	1,269	19.2	496	7.5	738	11.2
Haldimand	21,600	425	19.6	146	6.7	229	10.6
Haliburton	5,640	146	20.5	22	3.9	62	10.9
Halton	22,370	420	18.7	160	7.1	229	10.2
Hastings	55,600	1,310	23.5	470	8.4	709	12.7
Huron	52,520	974	18.5	348	6.6	600	11.2
Kenora	17,900	246	13.7	54	3.0	146	8.4
Kent	56,270	1,187	21.0	475	8.4	608	10.4
Lambton	50,530	957	18.9	518	10.2	611	12.0
Lanark	34,250	683	19.9	245	7.1	428	12.4
Leeds and Grenville	54,200	1,018	18.7	498	9.1	896	16.5
Lennox and Addington	21,870	391	17.8	154	7.0	229	10.4
Lincoln	35,920	806	22.4	348	9.7	460	12.8
Manitoulin	10,940	206	18.8	56	5.2	69	6.3
Middlesex	98,020	1,914	19.5	928	9.4	1,191	12.1
Muskoka	21,070	531	25.2	160	7.5	209	9.9
Nipissing	62,600	1,775	28.3	473	7.5	618	9.8
Norfolk	27,070	517	19.0	193	7.1	330	12.1
Northumberland and Durham	59,480	1,142	19.2	390	6.5	739	12.4
Ontario	41,260	808	19.5	277	6.7	494	11.9
Oxford	47,640	974	20.4	382	8.0	582	12.2
Parry Sound	25,870	675	26.0	167	6.4	272	10.4
Peel	22,160	418	18.8	142	6.0	230	10.3
Perth	48,960	963	19.6	403	8.2	520	10.6
Peterborough	42,390	977	23.0	377	8.8	470	11.0
Prescott and Russell	52,440	1,659	31.6	336	6.4	613	11.6
Prince Edward	17,190	290	16.8	116	6.7	236	13.7
Rainy River	10,300	254	28.1	96	9.3	79	7.6
Renfrew	51,320	1,179	22.9	360	7.0	603	11.7
Simcoe	85,590	1,804	21.0	647	7.5	1,042	12,1
Stormont, Dundas and Glengarry	63,980	1,135	17.7	366	5.7	804	12.5
Sudbury	39,500	779	19.7	183	4.6	423	10.7
Thunder Bay	40,950	1,353	33.0	461	11.2	494	12.0
Victoria	31,020	648	20.9	213	6.8	338	10.8
Waterloo	64,980	1,515	23.3	576	8.8	661	10.1
Welland	43,250	1,044	24.1	1,840	42.5	499	11.0
Wellington	54,390	1,085	19.9	378	6.9	681	12.5
Wentworth	116,680	3,149	26.9	1,464	12.5	1,654	14.1
York	480,680	12,573	26.1	6,418	13.3	6,545	13.6

TABLE No. 2.

Showing the total number of Births, Marriages and Deaths, and the ratio per 1,000 of population in each City in Ontario, 1912.

Cities.	Estimated Population.	Births. Excluding Still-Births.	Ratio per 1,000.	Marriages.	Ratio per 1,000.	Deaths. Excluding Still-Births.	Ratio per 1,000.
Totals	873,669	22,929	26.2	15,917	18.2	12,526	14.3
Belleville	10,340	241	23.3	124	11.9	154	14.8
Berlin	16,760	442	26.3	190	11.3	193	11.5
Brantford	25,100	741	29.5	302	12.0	334	13.3
Chatham	11,330	211	18.6	191	16.8	187	16.5
Fort William	18,500	762	41.1	205	11.0	288	15.5
Guelph	15,380	376	24.4	127	8.2	213	13.8
Hamilton	88,700	2,517	28.3	1,306	14.7	1,223	13.7
Kingston	19,765	427	21.6	310	15.6	400	20.2
London	50,860	1,091	19.6	676	13.2	670	13.1
Niagara Falls	9,665	260	26.9	839	86,7	119	12.3
Ottawa	91,200	2,346	25.7	1,089	11.9	1,550	16.9
Peterborough	19,245	462	24.0	251	13.0	224	11.1
Port Arthur	12,500	481	38.4	234	18.7	315	25.0
St. Catharines	13,730	341	24.8	197	14.3	216	15.7
St. Thomas	14,250	309	21.7	190	9.7	181	12.6
Stratford	13,400	286	21.3	138	10.2	179	13.4
Toronto	414,000	10,960	26.4	6,007	14.5	5,675	13.7
Windsor	19,450	464	23.8	3,429	176.2	277	14.2
Woodstock	9,485	212	21.2	112	11.8	130	13.7

TABLE No. 3.

Showing the total number of Births, Marriages and Deaths in the Towns of 5,000 population in Ontario together with the ratio per 1,000 of population, 1912.

Towns.	Census Population.	Births. Excluding Still-Births.	Ratio per 1,000.	Marriages.	Ratio per 1,000.	Deaths. Excluding Still-Births.	Ratio per 1,000.
Totals	153,780	3,913	25.4	2,018	13.1	2,446	15.9
Barrie	6,460	157	24.3	85	13.1	114	17.6
Brockville	9,410	231	25.5	136	14.4	178	18.9
Cobalt	5,500	247	44.9	63	11.4	89	16.1
Cobourg	5,000	109	21.8	51	10.2	116	23.2
Collingwood	7,040	182	25.8	58	8.2	96	13.6
Cornwall	6,820	153	22.4	61	8.9	164	24.0
Galt	11,090	251	22.6	112	10.1	127	11.4
Kenora	6,250	123	19.6	42	6.7	113	18.0
Lindsay	6,800	158	23.2	111	16.3	103	15.1
North Bay	8,110	282	34.7	118	14.5	141	17.3
North Toronto	6,490	182	28.0	33	5.0	47	7.2
Orillia	7,510	163	21.7	90	11.9	103	13.7
Oshawa	8,030	216	26.8	83	10.3	107	13.3
Owen Sound	12,780	335	26.2	155	12.1	162	12.6
Pembroke	5,850	146	24.9	59	10.0	131	22.3
Port Hope	5,210	110	21.1	33	6.3	62	11.9
Sarnia	10,050	228	22.6	297	29.5	206	20.4
Sault Ste. Marie	12,940	251	19.3	223	17.2	226	17.4
Smith's Falls	6,825	185	27.1	64	9.3	120	17.5
Welland	5,615	204	36.3	144	25.6	*41	7.3

* Returns for Welland are for three months.

TABLE No. 4.—Showing the number of births registered and birth rate per 1,000 of census population in each County of the Province for each of the ten years, 1903-1912, inclusive.

Counties.	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	Totals.
Totals	48,642 22.1	50,265 22.8	51,911 23.5	51,710 23.3	53,584 24.1	56,155 25.6	54,465 24.3	55,871 24.9	57,235 22.6	*58,870 22.4	538,708 23.5
Algoma	1,431 31.3	1,441 31.4	1,525 33.2	1,340 29.1	1,370 29.6	1,211 28.3	757 16.3	784 16.8	795 18.8	849 19.1	11,503 25.3
Brant	753 19.6	781 20.2	859 22.2	809 20.9	938 24.1	1,000 25.0	931 23.8	1,048 26.5	1,100 23.9	1,160 24.7	9,379 23.0
Bruce	1,192 20.0	1,300 21.8	1,268 21.2	1,192 19.9	1,187 19.7	1,130 18.7	1,289 21.3	1,195 18.4	1,060 21.1	1,069 21.6	11,882 20.3
Carleton	2,275 23.3	2,281 23.3	2,433 24.8	2,436 24.7	2,567 26.0	1,606 26.3	2,515 25.3	2,568 25.8	2,659 22.8	2,993 25.1	24,333 24.7
Dufferin	460 21.7	453 21.3	435 20.4	425 15.0	340 15.8	400 18.6	368 17.0	387 17.4	352 19.8	321 18.3	3,941 18.5
Elgin	740 16.8	785 17.8	786 12.8	861 19.4	889 20.0	938 21.1	900 20.1	861 19.1	843 19.0	828 18.6	8,431 18.4
Essex	1,719 29.1	1,602 27.1	1,615 27.2	1,549 26.1	1,385 23.2	1,681 28.2	1,528 25.5	1,589 26.4	1,594 23.5	1,579 22.9	15,841 25.9
Frontenac	820 18.2	899 20.0	878 19.4	926 20.4	837 18.4	893 19.6	974 21.3	901 19.7	861 22.0	872 20.8	8,861 19.9
Grey	1,425 20.3	1,519 21.6	1,512 21.4	1,353 19.1	1,438 20.3	1,400 19.7	1,484 20.8	1,384 19.3	1,390 21.0	1,269 19.2	14,174 20.2
Haldimand	379 17.7	420 19.6	388 18.0	441 20.4	408 18.7	434 20.0	418 19.2	414 19.0	408 18.9	425 19.6	4,135 19.1
Haliburton	186 28.1	233 35.2	203 30.6	197 29.6	216 32.3	204 30.5	219 32.6	174 25.0	182 28.7	146 20.5	1,960 29.3
Halton	369 18.7	407 20.6	448 22.6	408 20.5	429 21.5	460 23.0	447 22.3	460 22.9	484 21.8	420 18.7	4,332 21.2
Hastings	1,187 19.8	1,229 20.5	1,148 19.1	1,150 19.1	1,393 23.1	1,289 21.3	1,245 20.5	1,192 19.6	1,229 22.0	1,310 23.5	12,372 20.8
Huron	1,156 18.5	1,121 17.9	1,151 18.4	1,130 18.0	1,166 18.5	1,091 17.3	1,059 16.7	983 15.5	1,085 20.4	974 18.5	10,916 17.9
Kenora	.....	.....	.....	.....	.....	.....	285	213	239	246	983
	.....	.....	.....	.....	.....	.....	.....	.....	13.1	13.7	13.4
Kent	1,248 21.5	1,174 20.2	1,191 20.5	1,223 21.0	1,120 19.1	1,210 20.6	1,093 18.6	1,165 19.7	1,237 22.0	1,187 21.0	11,848 20.4
Lambton	1,148 20.1	1,136 19.8	1,194 20.8	1,193 20.7	1,073 18.5	1,107 19.1	942 16.2	943 16.2	942 18.3	957 18.9	10,635 18.8
Lanark	728 19.4	715 19.0	682 18.1	702 18.5	697 18.4	714 18.8	670 17.5	695 18.2	668 19.4	683 19.9	6,954 18.7
Leeds and Grenville	1,081 18.2	1,140 19.1	1,118 18.7	1,124 18.7	1,162 19.3	1,117 18.5	1,068 17.7	1,073 17.7	959 17.6	1,018 18.7	10,860 18.4
Lennox and Addington	436 18.5	410 17.4	431 18.2	360 15.1	404 17.0	401 16.8	382 16.0	361 15.0	367 18.0	391 17.8	3,943 16.9
Lincoln	616 20.0	567 18.3	680 22.0	669 21.6	652 20.9	704 22.6	687 21.9	715 22.8	735 20.7	806 22.4	6,831 21.3
Manitoulin	.....	.....	.....	.....	.....	.....	247	226	186	206	865
	.....	.....	.....	.....	.....	.....	.....	.....	16.8	18.8	17.8
Middlesex	1,803 19.3	1,917 20.4	1,839 18.1	1,883 20.0	1,929 20.4	1,997 21.1	1,854 19.5	1,844 19.3	1,820 18.7	1,914 19.5	18,800 19.6
Muskoka	636 30.1	643 30.3	633 29.8	654 30.7	605 28.3	626 29.2	604 28.1	565 26.2	534 25.1	531 25.2	6,031 28.3
Nipissing	1,332 49.4	1,321 48.9	1,608 59.4	1,457 53.7	1,742 64.0	1,607 58.9	1,195 43.7	1,703 62.0	1,688 28.5	1,775 28.3	15,428 49.6
Norfolk	507 17.2	591 20.0	579 19.6	538 18.2	572 19.3	536 18.0	562 18.8	586 19.6	571 21.0	517 19.0	5,559 19.0
Northumberland and Durham	1,058 16.9	1,169 18.6	1,121 17.8	1,110 17.6	1,164 18.4	1,164 18.3	1,134 17.8	1,216 19.1	1,142 19.2	1,142 19.2	11,420 18.2

* Still-births not included.

TABLE No. 4—*Concluded.*

Counties.	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	Totals.
Ontario	769	958	798	805	860	885	849	876	843	808	8,451
	18.9	23.4	19.5	19.6	20.9	21.4	20.5	21.1	20.5	19.5	20.5
Oxford	964	976	1,001	975	986	994	997	973	926	974	9,766
	19.7	19.9	20.4	19.8	20.0	20.1	20.1	19.6	19.5	20.4	19.9
Parry Sound	766	771	657	814	759	655	675	691	790	675	7,453
	30.5	30.6	26.0	32.2	29.8	33.6	26.4	27.0	29.7	26.0	29.1
Peel	377	328	377	384	381	446	427	426	414	418	3,978
	17.4	15.1	17.3	17.6	17.4	20.3	19.4	19.3	18.7	18.8	18.1
Perth	978	1,034	1,033	1,054	1,029	1,004	1,029	972	947	963	10,043
	19.4	20.5	20.4	20.8	20.2	19.7	20.1	19.0	19.2	19.6	19.8
Peterborough	788	891	850	870	870	986	866	930	925	977	8,953
	21.7	24.4	23.3	23.7	23.7	26.8	23.4	25.1	22.2	23.0	23.7
Prescott and Russell	1,824	1,775	1,950	1,819	1,733	1,881	1,760	1,842	1,767	1,659	18,010
	38.3	37.1	40.7	37.9	36.0	38.9	36.3	37.0	34.1	31.6	36.7
Prince Edward	267	270	296	315	321	328	326	319	332	290	3,064
	14.8	14.9	16.3	17.3	17.6	17.9	17.8	17.4	19.3	16.8	17.0
Rainy River	327	343	356	382	441	457	240	234	215	254	3,249
	19.7	20.6	21.4	22.9	26.3	27.2	14.2	13.8	21.3	28.1	21.5
Renfrew	1,427	1,465	1,508	1,381	1,391	1,471	1,291	1,227	1,223	1,179	13,563
	26.8	27.5	28.2	25.8	25.9	27.3	23.9	22.7	23.5	22.9	25.4
Simcoe	1,873	1,937	1,986	1,957	2,032	2,115	1,981	1,851	1,873	1,804	19,409
	22.6	23.3	23.8	23.2	24.6	25.2	23.5	21.9	22.0	21.0	23.1
Stormont, Dundas and Glengarry	1,518	1,561	1,531	1,469	1,465	1,497	1,460	1,237	1,330	1,135	14,223
	21.8	22.7	21.9	21.0	20.9	21.2	20.7	17.5	20.7	17.7	20.6
Sudbury							836	665	818	779	3,098
									23.4	19.7	21.5
Thunder Bay	379	493	501	638	784	962	871	1,083	1,241	1,353	8,305
	30.0	38.9	39.4	50.1	61.4	75.2	67.6	84.1	31.7	33.0	51.1
Victoria	711	648	685	727	686	774	661	691	584	648	6,815
	22.1	20.0	21.2	22.4	21.1	23.7	20.2	21.0	19.3	20.9	21.1
Waterloo	1,148	1,190	1,327	1,250	1,325	1,612	1,347	1,430	1,429	1,515	13,573
	21.6	22.4	24.9	23.4	24.7	30.0	25.0	26.5	22.8	23.3	24.4
Welland	676	661	728	749	738	857	780	917	942	1,044	8,092
	21.2	20.7	22.7	23.3	22.8	26.6	24.1	28.3	22.3	24.1	23.6
Wellington	1,054	1,066	1,065	1,076	1,099	1,134	1,111	1,108	1,100	1,085	10,918
	18.8	19.3	18.9	19.0	19.4	19.9	19.5	19.4	20.1	19.9	19.4
Wentworth	1,603	1,752	1,965	2,007	2,280	2,556	2,336	2,622	2,663	3,149	22,933
	20.0	21.8	24.4	24.9	28.2	31.5	28.7	32.1	23.8	26.9	26.2
York	6,508	6,852	7,572	7,908	8,721	10,421	9,765	10,532	11,743	12,573	92,595
	23.7	24.9	27.4	28.6	31.4	37.4	35.0	37.6	26.4	26.1	29.8

TABLE No. 5.—Showing the number of marriages registered and marriage rate per 1,000 of census population in each County of the Province for each of the ten years (1903-1912), inclusive.

Counties.	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	Totals.
Totals	19,830	19,789	20,426	19,846	21,915	21,058	22,366	24,036	25,807	28,845	223,918
	9.0	8.9	9.2	8.9	9.8	9.0	10.0	10.7	10.2	11.1	9.6
Algoma	477	401	464	387	482	475	382	302	340	403	4,113
	10.4	8.7	10.1	8.4	10.4	10.2	9.2	6.4	8.0	9.0	9.0
Brant	340	271	314	330	359	329	325	385	414	467	3,534
	8.8	7.0	8.0	8.5	9.2	8.4	8.3	9.0	9.0	9.9	8.6
Bruce	460	417	389	374	369	299	355	352	311	344	3,670
	7.7	7.0	6.5	6.2	6.1	4.9	5.8	5.8	6.2	6.9	6.3
Carleton	833	831	939	812	959	925	941	1,047	1,123	1,221	9,631
	8.5	8.4	9.5	8.2	9.7	9.3	9.4	10.5	9.6	10.2	9.3
Dufferin	190	160	141	142	134	140	119	134	142	130	1,432
	8.9	7.5	6.6	6.6	5.1	6.5	5.5	5.2	8.0	7.4	6.7
Elgin	360	353	369	315	341	396	352	334	342	368	3,530
	8.2	8.0	8.3	7.1	7.6	8.9	7.8	7.4	7.7	8.2	7.9
Essex	1,675	1,595	1,911	1,843	2,168	2,120	2,508	2,836	3,426	4,149	24,231
	28.4	27.0	32.2	31.0	36.2	35.8	41.9	47.8	50.7	60.2	39.1
Frontenac	370	349	324	307	356	326	366	364	381	427	3,570
	8.2	7.5	7.1	6.8	7.8	7.3	8.0	7.9	8.9	10.2	7.9
Grey	543	546	542	476	492	412	432	468	460	496	4,867
	7.7	7.7	7.7	6.7	6.8	5.8	6.0	6.5	7.1	7.5	6.9
Haldimand	188	189	182	127	151	174	136	149	130	146	1,572
	8.7	8.8	8.4	5.8	6.9	8.0	6.2	6.8	6.0	6.7	7.2
Haliburton	42	50	27	41	32	37	26	30	31	22	338
	6.3	7.5	4.0	6.6	4.7	5.5	3.8	4.4	4.9	3.9	5.1
Halton	116	134	147	132	134	118	134	130	132	160	1,337
	5.8	6.8	7.4	6.1	6.7	5.9	6.7	6.4	5.9	7.1	6.5
Hastings	509	461	466	448	493	486	469	430	439	470	4,671
	8.5	7.7	7.7	7.4	8.1	8.0	7.7	7.0	7.8	8.4	7.8
Huron	434	428	429	411	423	376	358	398	364	348	3,969
	6.9	6.8	6.8	6.5	6.7	5.9	5.6	6.2	6.8	6.6	6.4
Kenora	.....	.....	.....	.....	.....	.....	72	69	72	54	267
	.....	.....	.....	.....	.....	.....	.....	.....	3.9	3.0	3.4
Kent	485	453	403	437	402	425	408	454	459	475	4,401
	8.3	7.8	6.9	7.5	6.9	7.2	6.9	7.7	8.1	8.4	7.5
Lambton	462	479	485	466	509	483	466	486	523	518	4,877
	8.1	8.3	8.4	8.1	8.8	8.3	8.0	8.3	10.1	10.2	8.6
Lanark	263	274	260	260	249	223	219	274	264	245	2,531
	7.0	7.2	6.9	6.8	6.5	5.8	5.8	7.0	7.6	7.1	6.7
Leeds and Grenville	447	452	449	428	437	433	437	452	426	498	4,459
	7.5	7.6	7.5	7.1	7.3	7.1	7.2	7.4	7.8	9.1	7.5
Lennox and Addington	180	186	180	157	156	173	169	143	169	154	1,667
	7.6	7.8	7.6	6.6	6.5	7.2	7.0	5.0	8.2	7.0	7.0
Lincoln	223	232	237	240	236	231	290	294	332	346	2,663
	7.2	7.5	7.6	7.7	7.5	7.4	9.2	9.3	9.3	9.7	8.2
Manitoulin	.....	.....	.....	.....	.....	.....	67	69	57	56	249
	.....	.....	.....	.....	.....	.....	.....	.....	5.1	5.2	5.1
Middlesex	817	804	799	793	863	781	745	813	834	928	8,177
	8.7	8.5	8.5	8.4	9.1	8.2	7.8	8.5	8.5	9.4	8.5
Muskoka	166	183	172	173	167	150	133	134	132	160	1,570
	7.8	8.6	8.1	8.1	7.8	7.0	6.2	6.4	6.2	7.5	7.3
Nipissing	292	259	312	321	455	378	344	423	428	473	3,685
	10.8	9.5	11.5	11.8	16.7	13.8	12.5	15.4	7.2	7.5	11.6
Norfolk	233	213	212	203	232	208	193	226	183	193	2,096
	7.9	7.2	7.2	6.8	7.7	6.9	6.4	7.5	6.7	7.1	7.1
Northumberland and Durham	422	454	453	451	449	395	401	415	404	390	4,234
	6.7	7.2	7.2	7.1	7.1	6.2	6.3	6.5	6.8	6.5	6.7

TABLE No. 5—*Concluded.*

Counties.	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	Totals.
Ontario	305	290	262	287	250	261	263	264	269	277	2,728
	7.4	7.1	6.4	6.9	6.0	6.3	6.3	6.3	6.5	6.7	6.5
Oxford	367	362	370	303	381	332	372	336	352	382	3,557
	7.5	7.4	7.5	6.1	7.7	6.7	7.5	6.7	7.4	8.0	7.2
Parry Sound	177	156	171	203	225	193	174	160	194	167	1,820
	7.0	6.1	6.7	8.0	8.0	7.5	6.8	6.2	7.3	6.4	7.0
Peel	153	165	144	144	129	153	163	136	133	142	1,462
	7.0	7.6	6.6	6.6	5.8	6.9	7.4	6.1	6.0	6.0	6.6
Perth	385	386	406	402	394	349	349	337	369	403	3,780
	7.6	7.6	8.0	7.9	7.7	6.8	6.8	6.5	7.5	8.2	7.4
Peterborough	330	337	319	323	303	294	334	315	346	377	3,278
	9.0	9.2	8.7	8.8	8.2	7.9	9.5	8.5	8.2	8.8	8.6
Prescott and Russell	375	358	375	326	402	333	349	348	350	336	3,552
	7.8	7.4	7.8	6.7	8.3	6.9	7.2	7.1	6.7	6.4	7.2
Prince Edward	144	124	131	134	147	139	123	122	116	116	1,296
	8.0	6.8	7.2	7.3	8.0	7.6	6.7	6.6	6.7	6.7	7.1
Rainy River	92	111	132	144	161	196	81	91	74	96	1,178
	5.5	6.6	7.9	8.6	9.6	11.6	4.8	5.4	7.3	9.3	7.6
Renfrew	403	400	382	374	384	370	371	369	318	360	3,731
	7.5	7.5	7.1	6.9	7.1	6.8	6.8	6.8	6.1	7.0	6.9
Simcoe	680	660	660	626	671	574	580	630	635	647	6,363
	8.2	7.9	7.9	7.5	8.0	6.8	6.8	7.4	7.4	7.5	7.5
Stormont, Dundas and Glengarry	493	470	485	448	487	436	467	388	331	366	4,371
	7.1	6.6	6.9	6.4	6.9	6.2	6.6	5.4	5.1	5.7	6.2
Sudbury	.....	.....	.....	.....	.....	.....	181	163	122	183	649
	.....	.....	.....	.....	.....	.....	.....	.....	3.4	4.6	4.0
Thunder Bay	159	198	196	212	276	305	354	386	418	461	2,965
	12.5	15.5	15.4	16.6	21.6	23.8	27.5	30.0	10.6	11.2	18.4
Victoria	224	301	218	237	211	183	240	217	199	213	2,243
	6.9	9.3	6.7	7.0	6.4	5.6	7.3	6.6	6.5	6.8	6.9
Waterloo	454	451	422	418	482	463	437	482	486	576	4,671
	8.5	8.4	7.9	7.8	8.9	8.6	8.1	8.9	7.7	8.8	8.3
Welland	342	354	369	378	404	767	1,091	1,375	1,524	1,840	8,444
	10.7	11.1	11.5	11.8	12.5	23.7	33.7	42.4	36.1	42.5	23.6
Wellington	451	412	407	392	416	431	378	426	378	378	4,069
	8.0	7.3	7.2	6.9	7.3	7.5	6.6	7.4	6.9	6.9	7.2
Wentworth	725	772	840	850	951	887	919	1,075	1,271	1,464	9,754
	9.0	9.6	10.4	10.5	11.7	10.9	11.3	13.1	11.3	12.5	11.0
York	3,044	3,308	3,531	3,571	4,193	3,899	4,293	4,805	5,604	6,418	42,666
	11.0	12.0	12.8	12.1	15.1	14.0	15.3	17.1	12.6	13.3	13.5

TABLE No. 6.—Showing the number of Deaths registered and Death rate per 1,000 of census population in each County of the Province for each of the ten years (1903-1912), inclusive.

Counties.	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	Totals.
Totals	29,664 13.4	31,290 14.1	31,371 14.2	32,782 14.8	33,502 15.0	32,714 14.6	32,628 14.6	33,539 14.9	34,341 13.6	*32,150 12.4	323,981 13.9
Algoma	569 12.4	541 11.8	620 13.5	651 14.1	566 12.2	596 12.8	413 8.8	490 10.5	461 10.9	470 10.6	5,377 11.7
Brant	442 11.5	513 13.3	498 12.9	455 11.7	588 15.4	546 14.0	536 13.8	551 14.0	565 12.3	567 12.1	5,261 13.1
Bruce	713 12.0	735 12.3	742 12.4	796 13.3	776 12.9	718 11.9	706 11.6	650 10.7	648 12.9	621 12.5	7,105 12.2
Carleton	1,700 17.4	1,627 16.6	1,734 17.6	1,719 17.2	1,811 18.3	1,830 18.5	1,773 17.8	1,917 19.2	2,147 18.4	1,933 16.3	18,191 17.7
Dufferin	242 11.4	269 12.6	263 12.3	287 13.4	256 11.9	218 10.1	207 9.6	219 10.1	185 10.4	166 6.6	2,312 10.8
Elgin	480 10.9	586 13.3	489 11.0	575 13.0	550 12.4	562 12.6	527 11.8	488 10.9	505 11.3	539 12.1	5,301 11.9
Essex	767 13.0	784 13.2	727 12.2	893 15.0	774 13.0	849 14.2	830 13.8	800 13.3	881 13.0	808 11.7	8,113 13.2
Frontenac	724 16.1	640 14.2	643 14.2	691 15.3	706 15.5	611 13.4	605 13.2	697 15.2	672 15.7	705 16.8	6,694 14.9
Grey	801 11.4	880 11.1	885 12.5	830 11.7	837 11.8	770 10.8	795 11.1	711 9.9	643 11.2	738 11.2	7,990 11.2
Haldimand	210 9.8	266 12.4	245 11.4	267 12.4	240 11.1	211 9.7	226 10.4	228 10.4	276 12.8	229 10.6	2,398 11.1
Haliburton	80 12.1	81 12.2	74 11.1	77 11.5	84 12.5	78 11.6	80 12.0	68 10.1	74 11.7	62 10.9	758 11.5
Halton	230 11.6	273 13.8	264 13.3	309 15.5	263 13.2	258 12.9	249 12.4	254 12.6	258 11.6	229 10.2	2,587 12.7
Hastings	710 11.8	728 12.1	730 12.1	718 11.9	851 14.1	771 12.7	731 12.0	780 12.8	806 14.4	709 12.7	7,534 12.6
Huron	691 11.1	710 11.3	692 11.0	743 11.7	726 11.5	705 11.1	720 11.3	627 9.8	673 12.7	600 11.2	6,887 11.2
Kenora	.....	.....	.....	.....	.....	.....	136	114	116	146	512
	.....	.....	.....	.....	.....	.....	.....	.....	6.4	8.4	7.4
Kent	672 11.6	742 12.8	746 12.8	777 13.3	801 14.5	735 12.5	705 12.0	733 12.4	787 14.0	608 10.4	7,306 12.6
Lambton	695 12.1	704 12.3	742 12.6	782 13.6	770 13.3	702 12.1	647 11.1	588 10.1	639 12.4	611 12.0	6,880 12.1
Lanark	446 11.8	510 13.5	516 13.7	466 12.3	480 12.8	484 12.7	435 11.4	479 12.2	434 12.6	428 12.4	4,678 12.5
Leeds and Grenville	897 15.1	906 15.2	892 14.9	843 13.2	877 14.6	742 12.3	785 12.1	798 13.1	764 14.0	896 16.5	8,400 14.1
Lennox and Addington	268 11.4	263 11.1	289 12.2	305 12.8	308 12.1	267 11.2	263 11.0	316 13.2	264 12.9	229 10.4	2,773 11.8
Lincoln	390 12.6	488 15.8	472 15.2	492 15.8	450 14.4	424 13.6	505 16.0	482 15.3	459 12.9	460 12.8	4,622 14.4
Manitoulin	.....	.....	.....	.....	.....	.....	90	67	72	69	298
	.....	.....	.....	.....	.....	.....	.....	.....	6.5	6.3	6.4
Middlesex	1,285 13.7	1,427 15.2	1,357 14.4	1,348 14.3	1,365 14.4	1,323 13.9	1,260 13.2	1,348 14.1	1,313 13.5	1,191 12.1	13,237 13.8
Muskoka	250 11.8	281 13.2	334 15.7	294 13.8	238 11.1	275 12.8	279 13.0	257 11.9	243 11.4	209 9.9	2,660 12.4
Nipissing	479 17.7	502 18.6	640 23.6	775 28.5	845 31.0	772 28.3	758 27.7	812 29.5	730 12.3	618 9.8	6,931 22.7
Norfolk	342 11.6	421 14.3	366 12.4	372 12.5	348 11.7	385 12.9	363 12.1	368 12.3	343 12.6	330 12.1	3,628 12.4
Northumberland and Durham	856 13.7	842 13.4	816 13.0	813 12.9	869 13.7	827 13.0	765 12.0	861 13.5	757 12.7	739 12.4	8,145 13.0

* Still-births excluded.

TABLE No. 6—*Concluded.*

Counties.	1903	1904	1905	1906	1907	1908	1909	1910	1911	1912	Totals.
Ontario	495 12.1	526 12.9	499 12.2	529 12.9	507 12.3	556 13.5	571 13.8	617 14.8	559 13.6	494 11.9	5,353 13.0
Oxford	649 13.3	714 14.6	726 14.8	783 15.9	714 14.5	582 10.7	566 11.4	565 11.3	629 13.2	582 12.2	6,510 13.1
Parry Sound	260 10.3	311 12.3	299 11.8	382 15.1	355 14.0	305 11.9	268 10.5	252 9.8	316 11.9	272 10.4	3,020 11.8
Peel	268 12.3	288 13.2	306 14.0	261 11.9	270 12.3	253 11.5	271 12.3	278 12.6	271 12.2	230 10.3	2,696 12.2
Perth	620 12.3	550 8.9	526 10.4	570 11.2	569 11.2	573 11.2	558 10.9	524 10.2	514 10.4	520 10.6	5,524 10.7
Peterborough	539 14.8	552 15.1	489 13.4	518 14.1	507 13.8	517 14.0	539 14.6	569 15.3	606 14.5	470 11.0	5,306 14.0
Prescott and Russell	784 16.4	704 14.7	758 15.8	713 14.8	811 16.8	739 15.3	764 15.7	692 14.2	771 14.8	613 11.6	7,349 15.0
Prince Edward	239 13.2	231 12.6	243 13.4	244 13.4	268 14.7	281 15.4	262 14.3	278 15.1	244 14.2	236 13.7	2,526 14.0
Rainy River	131 7.9	180 10.8	187 11.2	306 18.3	383 22.8	422 25.1	83 4.9	96 5.6	111 11.0	79 7.6	1,978 12.5
Renfrew	639 12.0	644 12.1	726 13.6	673 12.5	644 12.0	585 10.8	591 10.9	565 10.4	629 12.1	603 11.7	6,308 11.8
Simcoe	1,034 12.4	1,057 12.7	1,118 13.4	1,252 15.0	1,113 13.3	1,089 12.9	1,159 13.7	1,083 12.8	1,156 13.5	1,042 12.1	11,103 13.2
Stormont, Dundas and Glengarry	794 11.4	952 13.6	912 13.0	901 12.8	950 13.5	893 12.7	863 12.2	803 11,3	908 14.1	804 12.5	8,780 12.7
Sudbury							359 10.3	405 10.7	362 10.3	423 10.7	1,549 10.5
Thunder Bay	253 20.0	329 25.0	267 21.0	564 44.3	485 37.9	557 43.5	480 34.7	600 46.6	523 13.3	494 12.0	4,552 30.2
Victoria	403 12.5	391 12.1	393 12.1	372 11.4	449 13.8	406 12.4	352 10.7	377 11.5	370 12.2	338 10.8	3,851 11.9
Waterloo	599 11.3	613 11.5	635 11.9	682 12.7	681 12.7	664 12.1	693 12.8	793 14.7	736 11.7	661 10.1	6,757 12.1
Welland	451 14.1	502 15.7	499 15.6	484 15.1	521 16.2	518 16.0	470 14.5	575 17.7	522 12.3	499 11.0	5,041 15.1
Wellington	708 12.6	755 13.4	701 12.4	746 13.2	684 12.0	674 11.8	721 12.6	668 11.7	720 13.2	681 12.5	7,038 12.5
Wentworth	1,172 14.6	1,341 16.7	1,318 16.4	1,388 17.2	1,419 17.5	1,511 18.5	1,467 18.0	1,579 19.3	1,606 14.3	1,654 14.1	14,455 16.6
York	4,687 17.0	4,931 17.9	4,993 18.1	5,136 14.9	5,793 20.8	5,930 21.3	6,202 22.2	6,517 23.3	6,973 15.6	6,545 13.6	57,707 18.6

TABLE No. 7.

Recapitulation of Causes of Death by Classes of Diseases in Counties, 1912.

Causes of Death by Classes of Diseases.	Total.	Ages.																Sex.			Months.											
		Under 0-1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Grand Total	32,150	6,494	915	374	255	192	639	406	698	2,116	2,206	2,162	2,668	3,614	5,101	3,832	478	17,432	14,706	12	2,910	2,756	3,062	2,892	2,740	2,355	2,610	2,607	2,605	2,545	2,390	2,678
I. General diseases	7,497	556	237	132	105	90	286	161	308	932	900	816	926	965	778	193	112	3,796	3,701	...	677	641	679	674	700	597	568	653	563	594	570	581
II. Diseases of the nervous system and of the organs of special sense.....	3,034	471	103	55	38	21	70	43	50	120	135	206	312	497	554	316	43	1,617	1,417	...	282	263	273	269	246	259	269	206	231	230	244	262
III. Diseases of the circulatory system	3,960	7	7	4	3	1	25	29	30	131	184	289	475	965	1192	558	60	2,200	1,760	...	390	324	347	389	355	313	298	300	260	321	287	376
IV. Diseases of the respiratory system.	3,152	673	237	68	38	24	55	24	50	175	169	217	263	365	491	267	36	1,725	1,427	...	367	421	459	362	282	183	140	102	131	184	223	298
V. Diseases of the digestive system	2,784	1,236	209	45	20	16	66	49	83	113	146	147	156	233	187	58	20	1,530	1,254	...	179	141	203	167	177	130	295	410	470	295	165	152
VI. Non-venereal diseases of the genito-urinary system and adnexa	1,305	20	4	3	7	1	13	16	21	66	108	129	207	277	297	116	20	762	543	...	101	115	115	131	105	123	101	89	87	95	125	118
VII. The puerperal state	406	.....	.....	.....	.....	.....	.....	.....	33	141	180	42	1	.....	.....	.....	9	.....	406	...	25	43	40	44	33	29	38	31	29	21	37	36
VIII. Diseases of the skin and cellular tissue.....	198	16	4	1	.....	.....	7	3	1	19	12	10	15	25	38	41	6	114	84	...	17	23	23	21	21	12	21	9	11	11	17	12
IX. Diseases of the bones and of the organs of locomotion.	27	2	.....	1	.....	1	2	3	4	2	2	2	3	4	1	.....	...	14	13	...	1	4	3	2	4	2	4	1	1	2	2	1
X. Malformations.....	217	217	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	...	100	117	...	22	15	21	13	17	17	15	20	27	16	15	19
XI. Diseases of early infancy..	3,235	3,235	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	...	1,809	1,414	12	238	260	307	264	305	237	286	291	294	257	238	258
XII. Old age	3,646	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9	1439	2,178	20	1,879	1,767	...	404	345	380	328	272	235	280	247	264	277	272	342
XIII. Affections produced by external causes.....	1,831	29	44	46	23	28	81	60	87	317	278	212	190	137	97	91	111	1,429	402	...	133	92	113	136	156	165	230	185	164	171	139	147
XIV. Ill-defined diseases.....	858	32	70	19	21	10	34	18	31	100	92	92	120	137	27	14	41	457	401	...	74	69	99	92	67	53	65	63	73	71	[illegible]	76
Still-Births(not incl. in totals) ..	2,588	2,588	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	...	1,489	999	100	232	198	229	240	229	215	198	233	214	183	212	205

TABLE No. 8.

Recapitulation of Causes of Death by Classes of Diseases in Cities, 1912.

Causes of Death by Classes of Diseases.	Total.	Ages.															Sex.			Months.											
		Under 0-1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Grand Total	12,526	3,194	427	167	107	89	247	154	336	965	893	924	1,120	1,340	1,543	953	67	6,710	5,812	4	1,059	1,006	1,154	1,146	1,052	856	1,061	1,115	1,074	1,000	934	1,069
I. General diseases	2,977	260	108	58	49	48	125	66	128	390	377	339	388	329	245	53	14	1,501	1,476	..	279	242	266	255	265	230	211	285	241	235	227	241
II. Diseases of the nervous system and the organs of special sense	1,149	256	48	29	14	6	23	10	21	55	54	78	116	183	182	98	6	620	529	..	113	85	93	103	109	93	98	83	90	8	97	98
III. Diseases of the circulatory system	1,521	3	4	3	1	1	11	16	18	75	98	134	224	365	391	165	12	801	720	..	156	123	138	159	129	107	118	110	93	120	113	155
IV. Diseases of the respiratory system	1,426	356	124	40	16	11	19	7	25	96	85	114	116	167	158	86	6	803	623	..	142	163	195	179	125	77	72	50	73	83	104	163
V. Diseases of the digestive system	1,419	772	110	18	12	6	20	14	32	55	75	70	69	92	58	14	2	757	662	..	65	75	82	89	85	64	178	246	246	142	77	70
VI. Non-venereal diseases of the genito-urinary system and adnexa	506	10	1	2	2	....	6	7	7	32	48	65	103	96	92	33	2	284	222	..	37	44	40	56	36	49	38	37	30	46	56	37
VII. The puerperal state	184	.....	....	....	....	....	....	10	67	93	14	....	....	....	....	....	..	.....	184	..	11	17	14	12	18	13	21	14	17	8	20	19
VIII. Diseases of the skin and cellular tissue	85	10	2	1	....	....	2	2	1	11	9	7	7	14	11	8	..	51	34	..	6	5	10	11	10	6	9	4	7	4	5	8
IX. Diseases of the bones and of the organs of locomotion.	15	1	....	....	....	1	2	1	2	2	2	1	3	....	....	....	..	10	5	..	....	2	2	1	2	1	1	1	1	2	1	1
X. Malformations	92	92	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	42	50	..	6	6	10	6	6	6	9	8	12	6	9	8
XI. Diseases of early infancy	1,439	1,439	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	826	609	4	100	119	132	127	137	92	140	149	118	109	93	123
XII. Old age	834	.....	....	....	....	....	....	....	....	....	....	....	....	2	367	463	2	378	456	..	87	76	108	74	49	55	65	55	63	73	55	74
XIII. Affections produced by external causes	690	11	11	15	9	15	31	20	33	133	109	93	65	61	35	33	16	524	166	..	44	34	53	49	67	54	87	61	64	66	62	49
XIV. Ill-defined diseases	189	14	19	1	4	1	8	1	2	23	22	23	29	31	4	....	7	113	76	..	13	15	11	25	14	9	14	12	19	19	15	23
Still-Births (not included in totals)	1,252	1,252	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	789	440	23	120	85	114	109	92	112	102	120	94	105	104	95

TABLE No. 9.

Recapitulation of Causes of Death by Classes of Diseases in Towns of 5,000 population and over, 1912.

Causes of Death by Classes of Diseases.	Total.	Ages.															Sex.			Months.											
		Under 0-1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Grand Total	2,446	520	70	34	23	15	57	33	62	210	218	165	198	240	314	230	57	1,335	1,107	4	251	189	217	187	201	197	226	213	236	183	154	192
I. General diseases.....	618	47	23	13	12	8	20	11	22	91	87	68	69	76	48	11	12	310	308	..	56	40	58	57	61	52	61	51	53	46	42	41
II. Diseases of the nervous system and of the organs of special sense	213	45	6	4	4	2	7	5	4	9	7	9	26	36	31	12	5	104	108	..	30	14	16	22	10	18	21	20	19	15	12	15
III. Diseases of the circulatory system	247	.....	....	....	....	....	3	2	1	6	19	21	34	58	69	30	4	134	113	..	22	20	18	14	22	21	26	24	24	13	15	28
IV. Diseases of the respiratory system	209	44	20	6	1	1	5	5	5	11	19	7	22	13	29	15	6	118	91	..	29	23	24	20	23	16	10	8	8	17	13	18
V. Diseases of the digestive system	226	89	11	3	2	2	11	5	12	15	17	20	11	15	13	5	4	120	106	..	21	9	20	6	11	12	26	29	41	21	15	15
VI. Non-venereal diseases of the genito-urinary system and adnexa	88	1	....	....	1	....	2	2	2	4	15	7	9	24	14	6	1	57	31	..	9	12	6	8	8	6	6	6	6	7	7	7
VII. The puerperal state	39	.....	....	....	....	....	....	....	4	20	11	3	1	....	....	....	..	.....	39	..	2	5	5	5	3	5	5	3	3	1	1	1
VIII. Diseases of the skin and cellular tissue.....	14	1	....	....	....	....	1	1	....	1	....	....	....	3	1	5	1	9	5	..	2	3	1	....	2	1	....	1	2	1	1	....
IX. Diseases of the bones and the organs of locomotion.....	3	.....	....	1	....	....	....	....	....	1	....	....	....	1	....	....	..	2	1	..	1	....	....	1	....	....	1	....	....	....	....	....
X. Malformations	12	12	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	5	7	..	1	....	1	....	2	3	....	2	2	....	....	1
XI. Diseases of early infancy..	285	285	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	149	132	4	25	21	23	23	25	20	22	26	30	24	19	27
XII. Old age	241	.....	....	....	....	....	....	....	....	....	....	....	....	....	101	139	1	125	116	..	29	28	26	17	10	15	27	18	19	23	9	20
XIII. Affections produced by external causes	205	3	6	7	1	2	6	2	12	48	36	23	18	9	8	5	19	173	32	..	19	10	12	12	18	23	16	23	25	12	18	17
XIV. Ill-defined diseases	47	2	4	....	2	....	2	....	....	4	7	7	8	5	....	2	4	29	18	..	5	4	7	2	6	5	5	2	4	3	2	2
Still-Births (not included in totals).....	217	217	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	118	90	9	14	20	24	21	22	11	15	18	16	20	15	21

TABLE

Showing Total Deaths by Individual

CAUSES OF DEATH.	Total.	Algoma.	Brant.	Bruce.	Carleton.	Dufferin.	Elgin.	Essex.	Frontenac.	Grey.	Haldimand.	Haliburton.	Halton.	Hastings.
Grand Total	32,150	470	567	621	1,933	166	539	808	705	738	229	62	229	709
I—General Diseases.														
(A—Epidemic Diseases.)														
Group Total	7,497	125	121	140	493	41	126	203	160	177	67	14	58	163
1. Typhoid Fever	483	14	6	2	101	....	6	25	7	5	3	1	....	8
2. Typhus Fever	2	....	....	....	....	....	....	....	....	....	....	....	....	....
4. Malaria	1	....	....	....	....	....	....	....	....	....	....	....	....	1
5. Smallpox	2	....	....	....	2	....	....	....	....	....	....	....	....	....
6. Measles	111	8	2	1	1	....	....	....	1	14	2	....	....	....
7. Scarlet Fever	152	1	....	4	3	....	1	3	4	3	....	3	....	9
8. Whooping Cough	419	2	12	7	40	1	9	8	13	4	11	....	4	7
9. Diphtheria and Croup	371	16	3	5	34	1	2	7	8	7	2	....	1	7
10. Influenza	222	3	7	5	10	3	4	10	4	2	3	....	2	8
13. Cholera Nostras	11	....	....	....	1	....	....	....	....	....	....	....	....	....
14. Dysentery	88	2	1	4	1	1	2	4	1	....	1	....	....	1
18. Erysipelas	80	2	3	1	2	1	1	1	....	4	....	1	....	3
19. Other epidemic diseases	4	....	....	....	....	....	....	1	....	....	....	....	....	....
20. Purulent infection and Septicæmia	123	1	2	4	5	2	1	1	4	1	....	....	1	1
21. Glanders	1	....	....	....	....	....	....	....	....	....	....	....	....	....
23. Rabies	1	....	....	....	....	....	....	....	....	....	....	....	....	....
24. Tetanus	16	....	1	....	....	....	....	2	1	....	....	....	....	....
25. Mycoses	2	....	....	....	....	....	....	1	....	....	....	....	....	....
28. Tuberculosis of the Lungs	1,921	28	31	36	127	7	19	48	49	40	14	4	11	45
29. Acute Miliary Tuberculosis	28	....	....	1	....	....	....	2	2	....	....	....	....	....
30. Tuberculous Meningitis	127	4	4	2	5	....	4	4	1	1	....	....	3	2
31. Abdominal Tuberculosis	82	1	1	....	2	....	2	4	....	1	....	....	2	2
32. Pott's Disease	12	....	....	1	4	2	....	....	....	1	....	....	....	1
33. White Swelling	7	....	....	....	2	....	....	....	....	....	1	....	....	1
34. Tuberculosis of other organs	66	....	2	2	3	....	1	3	4	....	....	1	....	2
35. Disseminated Tuberculosis	7	....	....	....	....	....	....	....	....	....	....	....	....	....
36. Rickets	21	1	....	....	3	....	1	1	....	....	1	....	....	1
37. Syphilis	27	1	....	....	4	....	....	1	1	1	....	....	1	....
38. Gonococcus infection	1	....	....	....	1	....	....	....	....	....	....	....	....	....
39. Cancer and other malignant tumors of the buccal cavity	150	1	1	4	8	1	2	9	2	1	2	....	....	3
40. Cancer and other malignant Tumors of the stomach, liver	570	9	5	26	28	4	19	10	19	15	8	....	8	15
41. Cancer and other malignant Tumors of the peritonæum, intestines, rectum	258	1	7	5	10	2	....	6	4	6	3	....	1	6
42. Cancer and other malignant Tumors of the female genital organs	159	4	....	1	6	....	3	6	4	1	....	....	2	2
43. Cancer and other malignant Tumors of the breast	116	2	4	1	8	1	4	4	2	3	1	....	2	2
44. Cancer and other malignant Tumors of the skin	11	....	....	....	....	1	....	....	3	....	....	....	....	....
45. Cancer and other malignant Tumors of other organs and of organs not specified	511	5	13	9	26	4	12	10	11	17	4	1	5	6
46. Other Tumors (Tumors of the female genital organs excepted)	7	....	....	....	1	....	....	1	....	....	....	....	1	....
47. Acute Articular Rheumatism	110	4	1	3	2	1	1	3	3	4	3	....	1	2
48. Chronic Rheumatism and Gout	166	2	1	2	10	2	2	4	1	7	1	1	2	5
49. Scurvy	1	....	....	....	....	1	....	....	....	....	....	....	....	....
50. Diabetes	269	1	3	5	14	3	8	8	3	5	3	1	1	7
51. Exophthalmic Goitre	79	2	2	2	....	....	1	....	1	4	....	....	1	3
52. Addison's disease	14	....	....	1	....	....	....	....	....	....	....	....	....	2
53. Lencæmia	40	....	1	....	1	....	2	2	1	1	....	....	....	....
54. Anæmia, Chlorosis	450	2	6	11	13	3	17	13	5	26	4	....	7	6
55. Other General diseases	41	1	1	1	5	....	1	....	....	....	....	1	1	1
56. Alcoholism (acute or chronic)	149	7	1	....	8	....	1	1	1	3	....	....	1	4
57. Chronic lead Poisoning	4	....	....	....	1	....	....	....	....	....	....	....	....	....
59. Other chronic poisonings	1	....	....	....	1	....	....	....	....	....	....	....	....	....

No. 10,

Diseases in each County, 1912.

Huron.	Kenora.	Kent.	Lambton.	Lanark.	Leeds and Grenville.	Lennox and Addington.	Lincoln.	Manitoulin.	Middlesex.	Muskoka.	Nipissing.	Norfolk.	Northumberland and Durham.	Ontario.	Oxford.	Parry Sound.	Peel.	Perth.	Peterborough.	Prescott and Russell.	Prince Edward.	Rainy River.	Renfrew.	Simcoe.	Stormont, Dundas and Glengarry.	Sudbury.	Thunder Bay.	Victoria.	Waterloo.	Welland.	Wellington.	Wentworth.	York.	Numbers.
600	146	608	611	428	896	229	460	69	1,191	209	618	330	739	494	582	272	230	520	470	613	236	79	603	1,042	804	423	494	338	661	499	681	1,654	6,545	
148	38	135	136	96	222	52	95	13	274	72	133	87	155	105	142	51	55	112	114	130	49	18	124	218	169	79	113	60	169	102	162	375	1606	
2	2	9	16	6	9	1	6	..	10	1	25	7	8	9	5	9	2	6	3		1	1	4	11	9	15	23	3	8	10	2	13	61	1
....	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	....	2
....	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	4
....	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	5
....	2	...	2	8	4	..	...	..	1	1	2	1	2	1	...	..	...	...	1	1	...	..	5	2	...	2	4	..	7	...	1	13	22	6
1	4	2	...	...	2	..	3	..	4	..	1	1	2	1	4	3	1	3	4	7	...	..	3	7	2	1	...	1	4	1	3	6	50	7
5	...	6	4	4	11	3	6	..	8	1	7	5	1	9	2	1	4	3	8	17	...	..	16	18	6	4	14	6	3	7	6	25	91	8
1	...	5	2	5	2	2	...	..	5	2	18	..	6	2	...	3	4	1	...	8	..	1	6	7	3	14	2	..	7	3	5	13	151	9
9	...	1	4	3	5	1	4	..	4	3	...	2	6	9	7	4	2	1	2	7	4	2	1	3	5	..	1	2	7	...	10	8	44	10
....	1	...	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	3	1	1	...	...	...	...	...	...	1	13
1	1	1	1	1	1	...	1	..	4	..	1	..	2	...	1	..	...	...	1	3	...	...	1	2	...	3	1	1	2	1	2	15	23	14
1	2	...		3	...	..	1	..	3	..	1	1	2	1	...	1	..	4	1	...	..	2	1	2	...	4	2	..	6	...	1	2	14	18
....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	..	...	...	1	...	...	...	1	19
2	2	3	3	...	4	..	...	1	8	..	2	1	...	2	7	..	..	2	3	1	..	..	1	2	1	1	2	..	3	...	2	8	39	20
....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	1	...	...	...	...	...	....	21
....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	....	23
....	...	...	1	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	1	...	..	2	..	...	1	...	1	3	24
....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	25
35	6	45	29	24	84	10	26	7	78	43	32	13	41	21	31	10	10	28	25	46	11	7	27	60	46	14	31	12	34	28	37	91	426	28
1	...	...	...	...	1	..	...	..	4	1	1	..	...	...	...	...	1	...	...	...	...	...	...	1	...	1	...	..	1	1	...	...	10	29
1	1	3	...	...	3	1	...	..	9	..	3	...	2	1	1	..	7	4	2	...	...	1	3	2	...	..	3	..	4	2	...	8	36	30
2	...	3	1	2	5	..	...	..	1	2	2	...	1	...	1	...	2	...	4	1	...	..	1	1	6	1	...	1	5	1	...	7	17	31
....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	....	32
....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	1	...	...	....	33
2	...	...	...	...	2	..	2	..	2	1	4	1	1	...	2	...	...	...	3	2	1	..	3	...	3	1	1	..	2	1	2	5	7	34
....	...	...	...	1	1	...	...	..	1	...	...	...	1	...	...	1	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	....	35
....	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	1	...	...	1	1	...	...	...	...	1	...	...	...	...	1	...	...	6	36
....	1	...	1	...	1	...	...	..	...	...	...	...	...	...	...	1	...	...	1	...	...	...	1	...	1	1	1	...	...	...	...	1	9	37
....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	38
....	...	2	6	2	4	..	2	..	9	..	...	3	5	5	5	1	..	6	1	1	...	..	1	3	3	1	...	1	2	...	3	9	41	39
27	...	17	8	8	10	6	10	1	16	5	6	15	15	9	12	6	1	12	6	7	6	2	6	16	13	1	4	8	12	5	21	30	83	40
4	4	3	9	5	8	3	5	..	11	2	3	2	9	8	5	..	2	5	6	...	7	...	3	5	10	..	2	6	2	1	13	16	48	41
3	2	3	...	...	1	2	1	..	3	1	1	1	3	2	6	..	1	1	2	2	3	..	6	7	1	..	2	1	6	1	2	11	55	42
5	1	...	2	1	5	1	1	..	6	..	....	3	1	...	1	..	..	4	3	1	3	..	1	2	3	..	1	2	4	...	3	2	26	43
2	...	...	...	...	...	...	...	...	1	..	....	..	1	...	...	...	...	...	...	...	...	...	...	...	1	..	...	...	...	...	...	...	2	44
9	...	8	10	9	18	3	6	..	26	4	7	14	14	7	10	3	8	5	7	3	4	1	7	16	16	2	1	4	14	12	17	22	104	45
....	...	...	...	...	...	...	...	..	1	..	....	1	...	...	1	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	46
7	1	1	3	...	1	1	2	..	7	..	1	..	1	...	1	1	2	4	3	1	...	..	3	5	4	..	...	...	6	...	1	4	22	47
2	1	4	9	...	6	2	2	1	4	..	3	4	3	3	7	1	1	2	2	2	..	1	7	4	6	1	1	4	5	3	4	5	26	48
....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	49
4	1	8	3	2	9	2	6	2	9	..	2	3	1	7	3	10	3	4	8	3	3	2	..	7	11	5	1	1	3	9	5	4	18	48	50
6	1	...	1	1	1	3	1	..	1	..	...	...	3	1	1	...	...	1	2	...	1	...	...	2	1	..	1	...	2	2	4	6	21	51
....	...	...	...	...	...	1	1	..	2	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1	1	2	52
....	...	...	3	1	3	...	1	..	3	..	...	1	...	1	1	...	...	...	...	...	...	...	...	1	...	...	...	...	2	2	2	1	10	53
13	1	8	8	10	16	8	5	..	25	2	5	7	15	8	17	2	8	6	15	4	5	1	7	18	17	..	3	4	8	10	11	23	47	54
....	1	...	...	...	...	...	1	..	5	...	...	...	2	...	...	...	...	1	1	...	...	...	1	4	...	...	...	...	...	...	1	3	9	55
3	3	2	3	...	3	1	2	..	3		1	5	1	2	1	3	...	1	2	1	...	...	...	1	1	9	9	1	3	2	4	6	49	56
....	...	1	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	57
....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	59

TABLE
Showing Total Deaths by Individual

CAUSES OF DEATH.	Total.	Algoma.	Brant.	Bruce.	Carleton.	Dufferin.	Elgin.	Essex.	Frontenac.	Grey.	Haldimand.	Haliburton.	Halton.	Hastings.
I.—Diseases of the Nervous System and of the Organs of Special Sense.														
Group Total	3,034	44	54	67	149	13	43	65	67	57	21	4	28	69
60. Encephalitis	13	....	....	....	1	....	....	....	....	....	....	....	....	1
61. Simple Meningitis	349	8	7	4	24	2	3	13	6	5	3	....	4	10
62. Locomotor Ataxia	33	....	....	1	1	....	....	....	2	....	....	....	....	....
63. Other diseases of the spinal cord	77	1	1	3	3	....	....	3	3	....	1	1	....	6
64. Cerebral hæmorrhage, apoplexy	1,029	12	28	24	52	5	17	24	21	18	6	1	15	24
65. Softening of the brain	34	1	1	....	1	....	1	....	2	1	....	....	1	....
66. Paralysis without specified cause	549	4	5	18	34	3	15	10	4	16	7	....	1	12
67. General Paralysis of the Insane	49	....	....	1	....	....	....	....	10	....	....	....	1	2
68. Other forms of mental alienation	61	....	....	1	1	1	1	....	5	1	....	....	1	3
69. Epilepsy	154	1	1	1	6	1	1	3	5	1	....	....	3	1
70. Convulsions (non-puerperal)	44	2	....	....	2	....	2	1	....	....	1	....	....	2
71. Convulsions of infants	402	14	6	5	12	1	3	8	3	10	....	....	1	5
72. Chorea	12	....	....	....	....	....	....	....	....	....	....	....	....	....
73. Neuralgia and neuritis	60	....	2	3	3	....	....	2	1	1	2	1	....	1
74. Other diseases of the nervous system	137	....	2	5	7	....	....	1	4	4	1	1	1	2
75. Diseases of the eyes and their adnexa	2	....	....	....	1	....	....	....	....	....	....	....	....	....
76. Diseases of the ears	29	1	1	1	1	....	....	....	1	....	....	....	....	....
III.—Diseases of the Circulatory System.														
Group Total	3,960	23	76	77	182	20	79	119	103	105	31	5	25	64
77. Pericarditis	13	....	1	....	....	....	1	....	....	....	....	....	....	....
78. Acute Endocarditis	163	2	1	2	15	....	1	3	5	2	....	....	1	....
79. Organic disease of the heart	2,462	16	48	44	108	9	55	67	66	76	21	4	16	36
80. Angina Pectoris	88	....	....	2	2	....	1	1	1	4	2	....	1	3
81. Diseases of the Arteries, atheroma, aneurysm, etc.	1,142	1	25	28	50	10	21	47	29	21	7	1	6	23
82. Embolism and Thrombosis	57	4	....	....	5	....	....	1	2	2	1	....	1	1
83. Diseases of the veins (varices, hæmorrhoids, phlebitis, etc.)	13	....	1	....	1	....	....	....	....	....	....	....	....	1
84. Diseases of the lymphatic system (lymph-angitis, etc.)	4	....	....	....	1	1	....	....	....	....	....	....	....	....
85. Hæmorrhage; other diseases of the circulatory system	18	....	....	1	....	....	....	....	....	....	....	....	....	....
IV.—Diseases of the Respiratory System.														
Group Total	3,152	43	56	56	197	20	45	68	76	79	13	7	20	84
86. Diseases of the Nasal Fossæ	1	....	....	....	....	1	....	....	....	....	....	....	....	....
87. Diseases of the Larynx	39	2	....	1	6	....	1	1	....	....	....	....	....	1
88. Diseases of the Thyroid Body	3	....	....	....	2	....	....	....	....	....	....	....	....	1
89. Acute Bronchitis	220	7	1	5	13	4	2	6	3	6	3	....	2	5
90. Chronic Bronchitis	369	....	13	....	9	1	8	6	12	16	1	....	2	8
91. Broncho-Pneumonia	480	10	9	12	41	1	4	13	7	13	3	1	4	11
92. Pneumonia	1,629	21	27	33	102	12	25	36	45	34	5	6	11	50
93. Pleurisy	183	3	1	....	11	....	3	2	4	4	....	....	....	3
94. Pulmonary congestion, pulmonary apoplexy	84	....	2	3	8	1	....	4	1	1	....	....	....	1
95. Gangrene of the Lungs	13	....	....	....	2	....	....	....	....	....	....	....	1	1
96. Asthma	112	....	1	2	2	....	....	....	4	5	....	....	....	3
97. Pulmonary Emphysema	5	....	....	....	....	....	....	....	....	....	1	....	....	....
98. Other diseases of the respiratory system (tuberculosis excepted)	14	....	2	....	1	....	2	....	....	....	....	....	....	....
V.—Diseases of the Digestive System.														
Group Total	2,784	53	54	42	236	23	33	69	44	52	14	5	15	55
99. Diseases of the Mouth and adnexa	11	....	....	....	1	....	....	....	4	....	....	....	....	....
100. Diseases of the Pharynx	36	....	....	....	3	....	....	2	1	2	1	....	....	....
101. Diseases of the Oesophagus	28	....	....	....	1	....	....	....	....	....	....	....	....	....
102. Ulcer of the Stomach	63	....	....	2	1	3	1	1	5	2	1	....	....	5
103. Other diseases of the Stomach (cancer excepted)	323	9	10	5	26	1	1	7	....	7	2	3	1	4
104. Diarrhœa and Enteritis (under 2 years)	1,146	28	23	....	128	....	4	33	4	15	4	1	5	26
105. Diarrhœa and Enteritis (2 years and over)	156	....	3	4	11	4	5	2	5	2	1	....	3	4
107. Intestinal Parasites	2	....	....	....	....	....	....	....	....	....	....	....	....	....
108. Appendicitis and typhlitis	260	6	7	6	20	6	3	5	6	4	2	....	1	4
109. Hernias, Intestinal Obstructions	239	4	1	16	13	3	4	8	5	7	1	....	2	4
110. Diseases of the Intestines	113	....	3	2	6	2	1	1	1	4	....	....	2	2
111. Acute Yellow Atrophy of the Liver	3	....	....	....	1	....	....	....	....	....	....	....	....	....

No. 10.—Continued.

Diseases in each County, 1912—Continued.

Huron.	Kenora.	Kent.	Lambton.	Lanark.	Leeds and Grenville.	Lennox and Addington.	Lincoln.	Manitoulin.	Middlesex.	Muskoka.	Nipissing.	Norfolk.	Northumberland and Durham.	Ontario.	Oxford.	Parry Sound.	Peel.	Perth.	Peterborough.	Prescott and Russell.	Prince Edward.	Rainy River.	Renfrew.	Simcoe.	Stormont, Dundas and Glengarry.	Sudbury.	Thunder Bay.	Victoria.	Waterloo.	Welland.	Wellington.	Wentworth.	York.	Numbers.
53	9	73	65	32	98	16	49	4	147	10	34	21	89	47	77	13	19	54	36	35	31	3	49	133	86	26	38	24	68	59	67	180	608	
....	...	...	...	...	...	..	...	..	1	..	1	..	...	...	...	...	...	...	1	..	...	...	...	...	...	..	1	..	2	...	...	1	4	60
6	2	14	9	3	5	3	3	..	18	2	8	2	6	5	4	3	..	5	7	5	1	1	4	17	6	3	8	4	4	3	5	20	74	61
1	...	1	3	...	2	..	1	..	2	..	...	..	...	...	1	..	1	...	...	3	1	..	1	..	1	1	...	..	1	1	2	1	5	62
....	...	2	1	...	2	..	1	..	3	..	1	..	5	2	2	..	2	...	...	...	...	...	2	8	1	..	1	1	2	7	...	...	12	63
28	1	28	23	14	32	4	15	2	45	4	5	8	36	14	20	4	5	22	14	11	16	1	20	44	42	7	10	7	18	24	25	44	189	64
1	...	...	1	...	2	3	1	..	1	...	...	..	4	...	...	..	..	1	...	...	1	...	...	2	2	...	...	..	2	...	...	2	3	65
7	...	13	12	4	15	2	10	1	34	1	6	4	15	9	12	1	8	15	5	10	10	..	5	23	11	6	1	7	13	7	9	35	109	66
....	...	...	...	2	...	..	1	..	2	...	...	..	2	...	...	..	..	...	...	...	...	...	...	...	...	...	1	..	...	...	3	9	15	67
....	...	...	1	...	4	..	...	..	3	...	...	..	1	...	3	...	..	1	1	1	...	..	1	1	1	...	...	..	1	...	4	16	8	68
1	1	3	3	...	8	1	2	..	14	1	1	2	1	2	22	2	1	1	1	1	2	..	3	14	2	1	...	1	2	2	2	10	23	69
2	...	...	1	1	1	..	2	..	...	1	...	...	...	1	2	...	1	...	...	...	...	...	1	2	...	...	...	3	3	1	3	2	7	70
3	3	4	7	5	8	1	9	1	8	1	9	1	11	6	8	1	2	4	3	1	...	..	11	9	18	5	13	1	18	12	12	24	115	71
....	...	...	...	...	1	..	...	..	3	...	1	1	1	1	1	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	1	1	72
2	1	4	1	1	1	1	3	..	3	..	2	2	2	2	2	...	...	...	2	...	..	1	1	3	...	...	...	...	1	...	1	...	8	73
2	1	3	3	2	15	1	...	..	10	..	...	1	4	5	...	1	..	1	2	3	..	..	...	8	1	3	1	..	...	2	1	14	25	74
....	...	...	...	...	...	..	1	..	...	...	...	..	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	75
....	...	1	...	...	2	...	...	..	...	..	1	..	1	...	...	1	..	2	...	...	...	...	...	1	1	..	2	..	1	...	...	1	10	76
94	16	102	80	64	163	37	54	2	176	15	32	73	100	58	72	19	42	62	66	31	30	7	68	125	105	13	32	48	94	81	92	209	789	
....	...	2	...	1	...	...	...	..	...	..	...	..	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	6	77
1	...	3	...	2	5	2	1	..	8	..	5	1	1	2	...	1	1	4	3	...	1	1	1	3	11	..	4	1	8	5	2	4	50	78
54	7	76	53	43	90	21	39	2	91	10	21	29	67	35	42	15	25	27	38	22	18	6	49	88	72	13	26	32	59	59	64	141	462	79
3	...	5	1	1	4	2	2	..	4	2	...	3	...	2	2	..	2	6	1	...	2	...	...	4	4	..	...	1	1	...	...	2	17	80
35	9	13	24	17	60	10	11	..	73	2	4	37	30	16	26	3	13	22	24	8	9	..	16	29	15	..	2	13	26	16	25	54	231	81
1	...	2	1	...	3	1	...	..	...	..	1	2	...	...	2	..	1	2	...	1	...	..	2	1	2	..	...	..	...	...	...	...	3	15	82
....	...	...	...	...	...	1	...	..	...	..	...	..	1	...	...	..	..	...	...	...	...	..	...	...	1	..	...	1	...	...	...	1	5	83
....	...	...	...	...	...	...	...	..	...	..	...	1	...	...	...	..	..	...	...	...	...	..	...	...	...	..	...	..	...	...	...	1	....	84
....	...	1	1	...	1	..	1	..	...	1	1	..	1	2	...	...	..	1	...	...	...	..	...	...	...	..	...	...	...	1	1	2	3	85
46	14	49	52	34	85	16	69	3	101	15	51	22	49	50	52	25	20	51	34	54	19	7	39	101	57	51	64	22	67	46	44	183	796	
....	...	...	...	...	...	...	...	..	...	..	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	86
....	1	...	...	3	...	...	...	..	...	..	...	..	...	...	...	1	...	...	...	3	...	..	1	2	...	1	2	...	...	...	...	3	10	87
....	...	...	...	...	...	...	...	..	...	..	...	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	88
5	...	4	3	...	3	1	2	1	5	1	5	2	2	10	1	5	1	1	4	6	..	3	3	8	6	6	1	..	3	2	6	6	57	89
6	2	5	8	2	11	7	10	2	16	3	2	3	3	4	5	..	3	14	3	1	2	..	4	21	10	2	6	3	17	8	5	21	84	90
5	2	6	7	5	8	1	4	..	10	3	14	1	3	5	7	6	1	7	8	3	...	..	4	12	6	13	14	4	7	9	3	35	138	91
21	8	22	24	18	47	4	43	..	51	4	21	14	33	21	29	7	10	18	14	34	16	4	19	44	31	27	38	12	32	20	21	101	414	92
4	1	5	5	3	6	2	4	..	5	2	3	1	6	2	4	5	4	7	2	1	1	..	3	9	1	..	1	2	2	5	3	8	45	93
....	...	3	3	...	1	..	1	..	6	1	...	1	...	3	1	1	..	2	1	4	...	..	3	1	2	1	...	1	2	1	3	5	16	94
....	...	...	...	...	...	...	...	..	1	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	1	...	6	95
5	...	3	2	2	8	1	5	..	7	1	4	..	2	5	5	..	1	2	2	1	...	..	2	4	1	..	2	...	4	...	2	2	22	96
....	...	...	...	...	...	...	...	..	...	..	1	..	...	...	...	...	..	...	...	...	...	..	...	...	1	..	...	..	...	...	...	...	2	97
....	...	1	...	1	1	..	...	..	...	..	1	..	...	...	...	...	..	...	...	...	...	..	...	...	...	..	...	..	...	1	...	2	2	98
34	7	46	31	21	59	13	35	2	65	7	46	15	49	42	31	18	21	32	39	69	12	5	39	77	65	42	70	31	41	42	40	171	772	
....	...	...	...	...	...	...	...	..	1	..	...	..	...	...	...	...	1	...	...	...	1	..	...	...	...	...	...	...	...	...	...	...	3	99
1	...	...	2	...	1	...	...	..	1	..	2	..	1	1	1	...	1	...	...	2	...	..	...	...	...	...	...	...	1	2	...	...	11	100
....	1	...	...	...	...	...	...	..	...	..	...	..	1	...	...	...	...	1	...	...	...	..	...	...	...	...	...	...	...	...	...	...	24	101
1	...	2	2	2	3	...	...	..	4	..	1	..	2	2	...	..	1	2	2	...	1	..	2	4	...	...	...	..	2	...	4	5	....	102
8	...	5	1	2	6	1	5	1	5	2	5	2	5	4	8	3	4	6	13	6	...	..	9	5	12	5	3	1	4	5	1	11	99	103
3	2	19	12	4	13	4	14	..	21	1	19	7	13	13	3	12	4	5	10	47	3	3	9	27	25	22	49	7	5	14	6	91	388	104
....	1	...	...	2	3	...	3	..	2	..	2	..	8	5	4	...	..	2	2	1	...	..	2	7	2	..	3	3	1	2	1	17	39	105
....	...	...	...	...	...	...	...	..	...	..	...	..	...	...	...	...	..	...	...	...	...	..	...	...	1	...	1	...	...	...	...	...	....	107
4	3	8	4	4	7	..	3	..	7	2	7	1	4	3	3	2	3	4	3	2	3	2	1	8	9	4	1	3	8	2	9	15	51	108
7	...	5	3	3	9	2	5	..	9	..	6	4	5	5	3	..	2	3	1	2	2	..	3	6	2	1	2	4	11	4	6	8	48	109
....	...	1	1	1	2	1	...	..	4	2	1	..	2	...	...	..	1	3	2	3	...	..	...	4	...	1	7	2	...	4	2	4	41	110
1	...	...	...	...	1	...	...	..	...	..	...	..	...	...	...	...	..	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	....	111

TABLE
Showing Total Deaths by Individual

CAUSES OF DEATH.	Total.	Algoma.	Brant.	Bruce.	Carleton.	Dufferin.	Elgin.	Essex.	Frontenac.	Grey.	Haldimand.	Haliburton.	Halton.	Hastings.
V.—Diseases of the Digestive System—Con.														
112. Hydatid tumor of the Liver	1	....	....	....	....	....	....	....	....	....	....	....	....	....
113. Cirrhosis of the Liver	103	....	....	2	8	2	1	1	5	3	....	1	1	2
114. Biliary Calculi	7	....	....	1	2	....	....	....	....	....	....	....	....	....
115. Other diseases of the Liver	120	....	4	2	10	....	4	4	4	4	....	....	....	1
116. Diseases of the Spleen	5	....	....	....	1	....	....	....	....	1	....	....	....	....
117. Simple Peritonitis, non-puerperal	162	6	3	1	4	2	8	5	3	1	2	....	....	3
118. Other diseases of the digestive system (cancer and tuberculosis excepted)	6	....	....	1	....	....	1	....	1	....	....	....	....	....
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa. Group total	1,305	15	15	31	80	7	26	36	22	29	8	2	12	21
119. Acute Nephritis	138	2	3	1	14	2	1	6	3	4	1	1	....	6
120. Bright's Disease	848	10	8	18	50	5	16	20	16	19	5	1	9	9
122. Other diseases of the Kidneys and Adnexa	75	1	....	1	5	....	1	2	1	....	....	....	1	1
123. Calculi of the Urinary Passages	43	1	....	3	4	....	....	1	....	....	....	....	....	....
124. Diseases of the Bladder	41	....	2	1	2	....	1	3	....	2	....	....	1	....
125. Diseases of the Urethra, Urinary Abscess, etc.	3	....	....	....	....	....	....	....	....	....	....	....	....	....
126. Diseases of the Prostate	114	....	1	7	3	....	5	4	2	3	....	....	....	2
127. Non-venereal disease of the Male Genital Organs	2	1	....	....	....	....	....	....	....	....	....	....	....	....
128. Uterine hæmorrhage (non-puerperal)	2	....	....	....	1	....	....	....	....	....	....	....	....	....
129. Uterine Tumor (non-cancerous)	1	....	....	....	....	....	....	....	....	....	....	....	....	....
130. Other diseases of the Uterus	12	....	....	....	....	....	....	....	....	....	....	....	1	2
131. Cysts and other Tumors of the Ovary	18	....	....	....	1	....	2	....	....	1	1	....	....	1
132. Salpingitis and other diseases of the Female Genital Organs	7	....	1	....	....	....	....	....	....	....	1	....	....	....
133. Non-puerperal diseases of the Breast (cancer excepted)	1	....	....	....	....	....	....	....	....	....	....	....	....	....
VII.—The Puerperal State. Group total	406	10	6	8	20	2	9	7	5	8	1	1	2	2
134. Accidents of Pregnancy	88	3	2	3	4	....	2	4	1	3	....	....	....	1
135. Puerperal Hæmorrhage	28	1	1	....	3	....	1	....	....	1	1	....	....	....
136. Other Accidents of Labor	96	5	....	1	1	....	3	1	....	1	....	1	....	....
137. Puerperal Septicæmia	127	1	2	2	6	1	1	2	3	3	....	....	....	....
138. Puerperal Albuminuria and Convulsions	53	....	1	2	4	1	2	....	1	....	....	....	1	1
139. Puerperal Phlegmasia Alba Dolens, Embolus, Sudden Death	11	....	....	....	....	....	....	....	....	....	....	....	1	....
140. Following Childbirth (not otherwise defined)	3	....	....	....	2	....	....	....	....	....	....	....	....	....
VIII.—Diseases of the Skin and of the Cellular Tissue Group total	198	2	1	2	13	2	7	3	10	1	....	....	....	7
142. Gangrene	103	1	....	1	8	....	6	2	4	1	....	....	....	1
143. Furuncle	7	....	....	....	1	....	1	....	....	....	....	....	....	1
144. Acute Abscess	71	1	1	1	3	2	....	1	5	....	....	....	....	4
145. Other diseases of the Skin and Adnexa	17	....	....	....	1	....	....	....	1	....	....	....	....	1
IX.—Diseases of the Bones and of the Organs of Locomotion. Group total	27	....	....	2	2	....	....	....	2	....	1	....	....	....
146. Diseases of the Bones (Tuberculosis excepted)	25	....	....	2	1	....	....	....	2	....	1	....	....	....
147. Diseases of the Joints (Tuberculosis and Rheumatism excepted)	2	....	....	....	1	....	....	....	....	....	....	....	....	....
X.—Malformations. Group total	217	3	4	7	15	4	2	2	1	6	....	....	1	4
150. Congenital malformations (still-births not included)	217	3	4	7	15	4	2	2	1	6	....	....	1	4

No. 10.—Continued.
Diseases in each County, 1912—Continued.

Huron.	Kenora.	Kent.	Lambton.	Lanark.	Leeds and Grenville.	Lennox and Addington.	Lincoln.	Manitoulin.	Middlesex.	Muskoka.	Nipissing.	Norfolk.	Northumberland and Durham.	Ontario.	Oxford.	Parry Sound.	Peel.	Perth.	Peterborough.	Prescott and Russell.	Prince Edward.	Rainy River.	Renfrew	Simcoe.	Stormont, Dundas and Glengarry.	Sudbury.	Thunder Bay.	Victoria.	Waterloo.	Welland.	Wellington.	Wentworth.	York.	Numbers.
..	...	...	...	...	...	..	...	..	...	...	...	...	...	1	...	..	...	...	...	...	..	..	...	...	...	...	...	...	...	...	...	1	....	112
2	...	3	2	...	2	1	1	..	4	...	...	...	...	1	2	..	1	2	2	1	..	..	1	3	6	2	2	2	3	2	4	6	22	113
1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	....	114
..	...	1	2	1	5	3	1	1	3	...	...	1	7	4	3	..	2	2	...	2	2	..	4	3	3	3	1	2	3	2	3	3	20	115
..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	2	...	...	...	...	...	...	...	...	...	....	116
5	...	2	2	1	7	1	3	..	4	..	3	..	2	3	4	1	1	3	2	3	..	..	6	10	6	3	2	6	3	4	3	9	25	117
1	...	...	...	...	...	..	...	...	...	...	...	..	...	...	...	..	...	...	...	...	..	..	...	...	...	...	..	...	...	...	...	1	1	118
31	5	23	34	17	41	10	15	2	73	11	7	16	31	25	25	12	8	25	20	18	17	1	19	45	33	6	11	23	35	17	26	66	243	
5	...	1	...	1	...	..	2	..	7	1	...	1	3	1	2	2	..	6	1	2	3	..	3	6	...	4	...	2	2	1	1	3	34	119
16	3	18	28	16	33	8	5	2	51	8	4	7	22	16	25	7	5	9	11	14	14	..	10	29	22	1	7	14	25	13	19	44	146	120
3	1	...	2	...	...	1	4	..	6	1	3	2	1	...	...	1	..	2	2	...	...	..	1	4	5	..	...	1	...	...	1	7	14	122
..	...	2	2	...	1	..	1	...	...	...	...	1	2	4	1	...	..	4	1	...	...	...	...	...	2	..	2	4	1	...	...	...	6	123
2	...	1	...	...	1	...	...	...	1	...	...	2	...	...	1	..	1	1	...	1	...	..	1	1	2	1	...	1	1	1	1	4	5	124
..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	125
4	...	1	2	...	6	..	3	..	7	1	...	1	1	3	6	..	2	3	4	...	..	1	3	5	2	..	1	1	4	1	4	6	15	126
..	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	127
1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	128
..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	129
..	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	1	...	...	1	3	130
..	...	...	...	...	...	...	...	...	...	...	...	1	1	1	...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	1	5	131
..	1	...	...	...	...	...	...	...	1	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	2	132
..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	133
7	...	3	6	4	4	6	3	..	17	3	11	1	8	9	5	2	2	10	5	5	3	4	2	13	15	6	11	3	11	6	10	30	100	
4	...	1	3	2	...	1	1	...	...	..	1	...	...	1	...	..	1	3	...	2	..	..	...	2	4	3	4	..	2	1	2	5	22	134
..	...	...	...	1	1	...	...	...	...	..	1	..	1	1	...	...	...	...	...	1	..	...	...	1	3	1	...	...	1	1	...	1	6	135
2	...	1	...	1	1	3	...	..	8	..	3	..	4	2	3	1	..	1	2	...	1	2	1	2	2	1	3	..	2	1	6	7	23	136
..	...	...	2	...	2	1	2	..	4	2	3	1	...	3	1	1	1	6	3	1	2	1	1	6	4	1	1	3	3	1	1	14	35	137
1	...	...	...	...	...	1	...	...	4	1	2	..	3	2	1	..	...	...	...	1	..	1	...	2	1	..	1	..	3	2	1	2	11	138
..	...	1	...	...	...	...	...	...	1	..	1	..	...	...	...	...	...	...	...	...	...	...	...	...	1	..	2	..	...	...	...	1	3	139
..	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	....	140
4	...	5	5	3	5	1	3	1	13	..	4	3	7	...	4	..	2	6	4	1	..	...	5	8	3	3	..	7	3	5	12	33		
4	...	4	3	2	3	..	...	1	6	..	2	1	6	...	2	..	2	3	2	1	..	...	3	6	1	1	..	3	2	2	7	12	142
..	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	1	...	...	...	...	...	...	2	2	2	...	...	...	...	...	2	143
..	...	...	2	...	2	..	3	..	7	..	1	1	1	...	...	...	..	2	2	...	...	...	1	2	2	2	..	2	1	3	5	14	144
..	...	1	...	1	...	1	...	...	...	..	1	..	...	...	2	...	...	...	...	...	...	...	1	...	...	...	...	2	...	...	...	5	145
2	...	...	1	...	...	1	...	..	1	..	...	...	...	...	1	..	...	...	1	1	..	...	...	1	...	...	...	3	...	1	3	4		
2	...	...	...	...	...	1	...	..	1	..	...	...	...	...	1	..	...	...	1	1	..	...	...	1	...	...	...	3	...	1	3	4	146
..	...	...	1	...	...	...	...	..	...	..	...	...	...	...	...	..	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...	....	147
2	...	4	4	4	3	..	2	..	9	1	9	4	4	3	4	5	2	9	3	2	1	..	2	9	2	4	4	3	1	1	6	12	49	
	...	4	4	4	3	..	2	..	9	1	9	4	4	3	4	5	2	9	3	2	1	..	2	9	2	4	4	3	1	1	6	12	49	150

TABLE

Showing Total Deaths by Individual

CAUSES OF DEATH.	Total.	Algoma.	Brant.	Bruce.	Carleton.	Dufferin.	Elgin.	Essex.	Frontenac.	Grey.	Haldimand.	Haliburton.	Halton.	Hastings.
XI.—Diseases of Early Infancy.														
Group total	3,235	55	49	53	279	9	37	86	61	56	12	5	18	70
151. Congenital Debility, Icterus, and Sclerema	3,101	52	42	53	267	8	36	83	61	56	10	4	15	68
152. Other Diseases peculiar to Early Infancy	106	3	7	....	11	....	1	2	....	....	2	1	3	1
153. Lack of Care	28	....	....	....	1	1	....	....	....	....	....	....	....	1
154. XII.—Old Age.														
Group total	3,646	30	92	85	147	16	83	80	84	120	31	8	27	103
XIII. Affections Produced by External Causes.														
Group Total	1,831	49	34	22	72	7	26	52	42	34	17	2	12	36
155. Suicide by poison	52	....	....	....	1	....	....	2	....	....	....	....	1	2
156. Suicide by asphyxia	6	....	....	....	....	....	....	....	....	....	....	....	....	....
157. Suicide by hanging or strangulation	33	....	1	1	....	....	....	2	1	1	....	....	....	....
158. Suicide by drowning	12	....	1	....	....	....	1	1	....	1	1	....	....	....
159. Suicide by firearms	19	....	....	....	3	....	....	....	1	....	....	....	....	1
160. Suicide by cutting or piercing instruments	11	....	....	....	....	....	....	1	1	....	....	....	....	....
163. Other Suicides	14	....	....	1	....	....	....	1	1	....	....	....	....	....
164. Poisoning by food	5	....	....	....	....	....	....	....	....	....	1	....	....	....
165. Other acute poisonings	61	2	....	1	4	....	1	1	....	3	1	....	....	3
166. Conflagration	18	1	....	1	3	....	....	....	....	....	....	....	....	....
167. Burns (conflagration excepted)	131	1	1	....	8	....	2	2	....	2	....	....	....	1
168. Absorption of Deleterious Gases (conflagration excepted)	58	3	....	....	....	....	2	....	....	2	1	....	....	....
169. Accidental Drowning	276	12	7	5	10	....	1	12	7	....	1	....	1	4
170. Traumatism by firearms	59	2	1	....	5	1	....	1	2	2	....	1	....	....
171. Traumatism by cutting or piercing instruments	1	....	....	....	....	....	....	....	....	....	....	....	....	....
172. Traumatism by fall	96	2	1	1	7	....	1	2	3	3	....	....	1	....
173. Traumatism in mines and quarries	29	1	....	....	....	....	....	....	3	....	....	....	....	....
174. Traumatism by machines	29	2	1	....	1	....	....	....	....	2	1	....	....	1
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	335	8	5	3	9	....	4	11	7	2	8	....	5	12
176. Injuries by animals	25	....	1	1	....	2	1	1	....	2	....	....	....	....
177. Starvation	2	1	....	....	....	....	....	....	....	....	....	....	....	....
178. Excessive cold	22	2	....	....	1	....	1	....	....	....	....	....	....	....
179. Effects of heat	14	....	....	....	2	....	....	1	....	....	....	....	....	1
180. Lightning	9	....	1	....	....	....	....	1	1	....	....	....	....	....
181. Electricity (Lightning excepted)	40	3	2	....	1	....	1	1	1	4	....	....	....	....
182. Homicide by firearms	2	....	....	....	1	....	....	....	....	....	....	....	....	....
183. Homicide by cutting or piercing instruments	3	....	....	....	....	....	....	....	....	....	....	....	....	....
184. Homicide by other means	8	....	1	....	1	....	....	....	....	1	1	....	....	....
185. Fractures (cause not specified)	261	5	6	7	8	4	8	8	5	6	1	....	2	8
186. Other external violence	200	4	5	1	7	....	3	4	9	3	1	1	2	3
XIV.—Ill-Defined Diseases.														
Group Total	858	18	5	29	48	2	23	18	28	14	13	9	11	31
187. Ill-defined organic disease	13	....	....	8	2	....	....	....	1	....	....	....	....	....
188. Sudden death	42	2	1	1	4	....	1	1	....	1	1	....	....	2
189. Cause of death not specified or ill-defined	803	16	4	20	42	2	22	17	27	13	12	9	11	29
Still-Births.														
Not included in Totals	2,588	43	43	42	198	6	30	62	41	52	8	8	15	35

No. 10.—Concluded.

Diseases in each County, 1912.—Concluded.

Huron.	Kenora.	Kent.	Lambton.	Lanark.	Leeds and Grenville.	Lennox and Addington.	Lincoln.	Manitoulin.	Middlesex.	Muskoka.	Nipissing.	Norfolk.	Northumberland and Durham.	Ontario.	Oxford.	Parry Sound.	Peel.	Perth.	Peterborough.	Prescott and Russell.	Prince Edward.	Rainy River.	Renfrew.	Simcoe.	Stormont, Dundas and Glengarry.	Sudbury.	Thunder Bay.	Victoria.	Waterloo.	Welland.	Wellington.	Wentworth.	York.	Numbers.
37	16	47	50	40	54	20	42	13	79	16	122	25	55	53	45	46	13	33	39	131	14	13	65	103	55	81	63	30	51	37	48	158	751	
35	16	47	48	38	49	20	39	13	74	16	117	21	55	48	45	44	13	32	38	131	13	13	61	99	52	77	62	28	48	35	48	152	719	151
2	...	...	2	2	4	..	2	..	4	..	4	4	...	4	...	1	..	1	...	...	1	..	3	3	3	3	1	1	3	2	...	4	20	152
...	...	...	...	...	1	..	1	..	1	..	1	..	...	1	...	1	..	...	1	...	...	..	1	1	...	1	...	1	...	...	...	2	12	153
114	2	84	106	69	116	44	60	20	165	32	34	48	132	70	81	25	27	90	59	62	48	3	94	139	155	12	8	63	83	52	131	128	384	154
16	31	35	33	27	36	6	26	1	44	18	76	10	51	27	25	39	18	24	30	26	10	10	26	54	29	70	71	23	25	46	35	91	337	
1	...	...	...	1	5	..	1	..	2	..	...	1	...	1	3	..	..	1	...	1	..	..	...	...	...	1	2	..	...	...	2	5	19	155
...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5	156
2	...	1	1	1	...	...	...	...	2	..	3	..	1	1	1	..	..	...	...	...	...	...	...	2	...	2	...	...	1	1	2	2	4	157
1	...	...	...	...	...	...	...	...	...	..	...	..	1	...	...	1	..	1	...	...	...	...	1	...	...	...	...	...	...	...	...	...	2	158
...	...	2	...	...	...	...	...	...	...	..	1	..	...	...	1	..	1	1	...	...	...	...	1	1	...	1	...	...	...	2	...	2	1	159
...	1	...	...	...	...	...	...	...	...	..	...	..	...	...	...	1	..	...	...	...	...	...	...	1	...	...	1	...	...	...	...	...	4	160
...	...	...	...	1	...	...	...	...	...	..	1	..	1	...	1	1	..	...	3	1	1	..	...	...	...	...	...	...	...	...	...	...	1	163
...	...	...	...	...	...	...	...	...	...	..	...	..	...	...	...	...	..	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	2	164
1	...	...	2	3	1	...	...	...	1	..	2	..	2	2	2	..	2	3	...	2	...	...	1	2	1	1	2	1	...	1	...	5	8	165
...	...	...	...	...	4	..	1	...	...	..	1	...	...	...	1	...	...	...	...	...	...	1	...	...	...	1	1	...	...	1	...	1	1	166
1	1	2	4	4	1	1	3	..	1	1	9	3	3	3	1	3	1	2	1	5	..	2	...	4	1	5	4	1	1	6	2	6	32	167
...	1	2	2	...	...	..	1	..	1	..	1	1	...	1	...	..	..	...	...	...	...	...	...	...	...	..	2	1	1	...	...	1	35	168
1	9	5	3	5	7	3	8	..	6	9	12	2	7	3	1	15	2	1	8	3	3	1	7	16	5	7	6	8	4	11	3	13	22	169
1	1	...	1	...	...	...	...	...	1	2	4	..	6	2	1	..	..	...	2	1	..	..	4	...	2	3	5	1	2	...	1	1	3	170
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	171
1	1	3	...	1	3	1	1	..	2	..	3	..	3	3	2	1	..	2	2	1	3	..	2	2	2	2	2	1	2	1	4	2	22	172
...	1	...	...	1	...	...	...	...	1	1	6	..	...	...	...	..	1	...	1	...	...	...	...	...	...	11	1	...	...	...	...	1	...	173
2	1	...	...	...	...	...	...	...	...	1	1	..	...	...	...	..	...	...	...	1	1	..	1	2	1	1	1	...	1	3	1	...	3	174
1	10	9	7	4	5	..	3	..	12	2	10	2	10	3	4	7	6	2	2	1	..	5	4	12	9	15	27	1	3	6	5	26	48	175
2	...	1	2	...	...	...	1	...	...	...	...	...	...	1	1	...	..	1	2	...	...	...	...	1	1	..	...	2	...	...	...	...	2	176
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	177
...	...	...	1	...	1	...	...	...	..	..	3	1	1	...	...	1	..	2	2	...	...	...	...	1	...	1	...	...	...	1	1	...	2	178
...	...	1	...	...	...	...	...	...	1	..	3	..	...	...	...	...	...	...	...	1	..	...	...	...	1	...	1	...	...	...	...	...	2	179
...	1	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	2	...	...	...	1	...	...	180
...	...	...	2	1	...	...	1	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...	...	...	2	..	3	1	1	3	...	1	10	181
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	182
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	1	183
...	...	...	...	...	1	..	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	184
2	4	4	5	3	6	1	3	..	7	2	8	..	10	4	3	4	2	7	2	3	1	..	1	4	2	14	10	3	4	5	6	12	51	185
...	...	5	3	2	2	..	2	1	6	..	8	..	4	1	3	5	3	...	5	6	1	..	3	5	2	3	3	3	4	4	7	11	55	186
12	8	2	8	17	10	7	7	8	27	9	59	5	9	5	8	17	1	12	20	48	2	8	76	20	24	30	6	8	6	7	14	36	73	
...	...	...	...	...	...	...	...	...	1	..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	187
2	...	...	...	1	1	1	...	...	...	..	2	..	1	...	1	1	...	...	...	1	...	...	...	...	...	...	...	1	1	1	2	7	4	188
10	8	2	8	16	9	6	6	8	26	9	57	5	8	5	7	16	1	12	20	47	2	8	76	20	24	30	5	7	5	6	12	29	69	189
31	4	36	35	24	26	6	27	4	94	27	98	10	59	47	41	25	13	38	48	52	16	5	44	83	36	34	57	29	47	37	38	167	667	

TABLE No. 11.

Table Showing Total Deaths by Individual Diseases in each City.—1912.

OFFICIAL ENGLISH TRANSLATION. (Diseases and Causes of Death.)	Total.	Belleville.	Berlin.	Brantford.	Chatham.	Fort William.	Guelph.	Hamilton.	Kingston.	London.	Niagara Falls.	Ottawa.	Peterborough.	Port Arthur.	St. Catharines.	St. Thomas.	Stratford.	Toronto.	Windsor.	Woodstock.
Grand Total	12,526	154	193	334	187	288	213	1,223	400	670	119	1,550	224	313	216	181	179	5,675	277	130
I.—General Diseases.																				
Group Total	2,977	36	52	69	46	52	49	270	102	148	22	405	63	93	50	39	46	1329	68	38
1. Typhoid Fever	242	4	3	4	5	7	1	7	6	5	4	98	2	23	3	3	3	54	7	3
5. Smallpox	2	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
6. Measles	46	..	4	1	..	2	..	12	..	1	..	1	..	3	..	..	..	22	..	..
7. Scarlet Fever	67	2	2	..	..	..	..	3	2	3	..	2	..	..	2	1	1	49	..	..
8. Whooping Cough	178	..	8	4	10	..	2	21	8	3	2	33	2	6	..	2	3	74	1	1
9. Diphtheria and Croup	198	..	5	2	1	1	3	8	6	3	2	25	..	1	..	1	..	140	..	..
10. Influenza	70	1	2	4	..	..	2	3	5	1	..	4	1	1	2	1	1	39	2	1
13. Cholera Nostras	2	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..
14. Dysentery	41	..	..	1	..	1	1	10	1	3	..	1	1	..	1	1	..	19	1	..
18. Erysipelas	28	1	2	1	..	2	..	2	..	1	..	1	1	1	1	..	1	13	1	..
19. Other Epidemic Diseases	2	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..
20. Purulent Infection and Septicæmia	65	..	1	1	1	2	1	5	4	5	..	4	1	3	..	..	..	36	1	..
23. Rabies	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
24. Tetanus	12	1	..	1	..	1	..	..	1	..	2	..	..	1	..	..	..	3	2	..
26. Mycoses	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..
28. Tuberculosis of the Lungs	678	8	10	20	15	12	13	74	24	43	4	96	17	30	16	10	10	253	14	9
29. Acute Miliary Tuberculosis	14	..	..	..	..	..	..	..	1	1	1	..	..	..	..	..	..	9	2	..
30. Tuberculous Meningitis	69	1	2	3	1	1	..	4	1	5	1	4	4	2	..	2	4	33	..	1
31. Abdominal Tuberculosis	22	..	..	1	..	..	..	2	..	..	..	2	1	..	..	..	..	15	1	..
32. Pott's Disease	4	..	..	..	..	..	..	..	..	..	..	4	..	..	..	..	..	..	..	..
33. White Swelling	3	1	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
34. Tuberculosis of other Organs	23	..	..	1	..	..	..	2	2	1	..	3	3	1	2	1	..	6	1	..
36. Rickets	12	1	..	..	..	..	..	..	..	..	..	3	1	..	..	1	..	6	..	..
37. Syphilis	18	..	..	..	..	1	..	1	1	..	..	4	1	1	..	..	..	8	1	..
38. Gonococcus infection	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
39. Cancer and other Malignant Tumors of the Buccal Cavity	74	..	..	..	1	..	2	7	1	6	..	6	1	..	1	1	4	39	4	1
40. Cancer and other Malignant Tumors of the Stomach, Liver	189	5	4	..	5	1	7	20	12	11	..	22	3	4	6	1	4	77	3	4
41. Cancer and other Malignant Tumors of the Peritonæum, Intestines, Rectum	103	1	..	3	1	2	6	15	4	4	..	7	4	2	3	..	2	45	3	1
42. Cancer and other Malignant Tumors of the Female Genital Organs	90	1	..	..	1	1	..	7	3	3	..	5	3	1	1	2	2	52	5	3
43. Cancer and other Malignant Tumors of the Breast	47	1	3	..	..	..	2	1	1	3	..	8	3	1	..	2	1	21	..	..
44. Cancer and other Malignant Tumors of the Skin	5	..	..	..	..	..	..	..	2	..	..	..	1	..	..	..	..	2	..	..
45. Cancer and other Malignant Tumors of other organs and of organs not specified	184	..	7	6	3	..	3	15	7	13	4	22	1	..	4	2	..	90	4	3
46. Other Tumors (tumors of the female genital organs excepted)	2	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..
47. Acute Articular Rheumatism	38	..	..	..	..	..	1	3	1	5	..	2	1	1	..	..	..	23	1	..
48. Chronic Rheumatism and Gout	54	2	..	..	1	..	1	3	1	2	1	7	1	1	..	1	1	26	2	4
50. Diabetes	98	1	3	..	2	..	..	14	3	5	..	9	3	1	2	1	4	44	3	2
51. Exophthalmic Goitre	31	..	..	2	..	1	1	5	1	..	..	..	1	1	1	..	..	18	..	..
52. Addison's Disease	4	..	..	..	..	..	..	1	..	1	..	..	..	..	1	..	..	1	..	..
53. Leucæmia	10	..	..	1	..	..	..	1	..	1	..	..	..	..	..	1	..	6	..	..
54. Anæmia Chlorosis	135	1	2	6	3	3	2	16	4	13	..	11	4	2	2	5	4	46	7	4
55. Other General Diseases	24	..	..	2	..	..	..	3	..	4	..	4	..	..	1	..	..	10	..	..
56. Alcoholism (acute or chronic)	86	4	2	1	1	3	3	4	..	2	1	7	2	6	1	..	1	47	1	..
57. Chronic lead poisoning	2	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
59. Other Chronic Poisonings	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																				
Group Total	1,149	16	26	34	30	25	23	99	34	67	22	114	15	18	26	19	15	526	25	15
60. Encephalitis	7	..	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	4	..	..
61. Simple Meningitis	172	1	4	6	7	4	1	17	3	14	3	17	2	6	3	2	2	70	8	2
62. Locomotor Ataxia	12	..	..	..	1	..	1	1	1	1	1	1	..	..	1	..	..	4	..	..
63. Other Diseases of the Spinal Cord	21	..	..	1	1	1	..	1	1	1	2	3	..	..	1	..	1	10	..	1
64. Cerebral Hæmorrhage, apoplexy	380	7	6	15	15	6	5	35	15	21	14	38	7	4	5	11	7	154	12	3
65. Softening of the Brain	11	..	2	..	..	..	..	1	2	..	..	1	..	..	..	1	1	3	..	..
66. Paralysis without specified cause	200	2	3	3	1	2	4	16	6	14	..	28	3	..	6	2	3	98	3	6
67. General Paralysis of the Insane	14	1	..	..	..	..	3	2	..	..	..	..	..	..	1	..	..	7	..	..
68. Other Forms of Mental Alienation	17	1	..	..	..	..	3	..	1	..	..	..	..	..	..	..	..	11	..	1

TABLE No. 11—Continued.

OFFICIAL ENGLISH TRANSLATION. (Diseases and Causes of Death.)	Total.	Belleville.	Berlin.	Brantford.	Chatham.	Fort William.	Guelph.	Hamilton.	Kingston.	London.	Niagara Falls.	Ottawa.	Peterborough.	Port Arthur.	St. Catharines.	St. Thomas.	Stratford.	Toronto.	Windsor.	Woodstock.
II.—Diseases of the Nervous System and of the Organs of Special Sense.—Continued.																				
69. Epilepsy	33	..	2	1	..	..	..	3	1	2	..	4	..	1	..	..	..	17	1	1
70. Convulsions (non-Puerperal)	14	1	1	..	1	2	..	..	..	..	..	1	..	1	2	1	..	4	..	..
71. Convulsions of Infants	183	1	5	5	..	7	5	17	1	7	2	11	2	5	5	2	1	105	1	1
72. Chorea	2	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..
73. Neuralgia and Neuritis	16	1	1	..	2	..	..	..	..	..	..	2	1	..	1	..	..	8	..	..
74. Other Diseases of the Nervous System	48	1	..	3	2	2	1	4	3	5	..	5	..	..	..	..	..	22	..	..
75. Diseases of the Eyes and their Adnexa	2	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	..
76. Diseases of the Ears	14	..	1	..	..	..	..	1	1	..	..	1	..	1	..	..	..	9	..	..
III.—Diseases of the Circulatory System.																				
Group Total	1,521	18	29	40	22	17	35	150	65	112	14	145	36	13	24	19	17	686	57	15
77. Pericarditis	8	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	6	..	..
78. Acute Endocarditis	91	..	1	1	3	2	1	3	4	6	5	14	3	..	1	..	2	45	..	..
79. Organic Diseases of the Heart	893	7	20	23	18	14	22	97	41	53	6	84	19	12	18	17	8	402	25	7
80. Angina Pectoris	32	2	1	..	2	..	..	3	1	3	..	2	..	..	..	..	..	15	1	2
81. Diseases of the Arteries, Atheroma, Aneurysm, etc.	456	9	6	14	4	1	12	41	17	50	3	40	14	1	1	2	4	202	30	5
82. Embolism and Thrombosis	28	..	..	..	1	..	..	2	2	..	..	2	..	..	3	..	2	14	1	1
83. Diseases of the Veins (Varices, Hæmorhoids, Phlebitis, etc.)	3	..	..	1	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..
84. Diseases of the Lymphatic System (Lymphangitis, etc.)	2	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..
85. Hæmorrhage; other Diseases of the Circulatory System	8	..	1	..	..	..	..	2	..	..	..	1	..	..	1	..	1	2	..	..
IV.—Diseases of the Respiratory System.																				
Group Total	1,426	15	18	34	10	42	12	145	48	59	11	156	15	40	33	17	16	717	30	8
87. Diseases of the Larynx	19	..	..	..	..	1	..	2	..	..	..	6	..	1	..	..	..	9	..	..
88. Diseases of the thyroid body	2	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
89. Acute Bronchitis	93	1	..	2	..	2	5	6	4	4	..	11	..	2	..	..	1	52	3	..
90. Chronic Bronchitis	140	2	5	6	3	2	..	10	7	9	2	6	3	3	1	3	3	73	2	..
91. Broncho-pneumonia	263	2	3	7	..	8	2	32	3	11	2	32	4	5	2	2	1	136	9	2
92. Pneumonia	753	9	9	16	4	28	2	77	30	25	6	83	8	24	24	9	7	372	16	4
93. Pleurisy	69	..	..	..	2	..	1	7	2	4	1	7	..	2	1	2	3	35	..	2
94. Pulmonary Congestion, Pulmonary Apoplexy	27	..	..	2	1	..	1	4	..	..	..	5	..	..	1	..	..	13	..	..
95. Gangrene of the Lung	8	..	..	..	..	..	..	..	..	1	..	2	..	..	..	..	..	5	..	..
96. Asthma	45	1	1	..	..	1	1	5	2	5	..	1	..	3	4	..	1	20	..	..
97. Pulmonary Emphysema	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..
98. Other Diseases of the Respiratory System (tuberculosis excepted)	5	..	..	1	..	..	..	2	..	..	..	1	..	..	..	1	..	..	..	..
V.—Diseases of the Digestive System.																				
Group Total	1,419	19	9	44	15	40	14	136	20	48	9	195	20	57	19	14	10	714	23	13
99. Diseases of the Mouth and Adnexa	7	..	..	..	..	..	..	..	2	1	..	1	..	..	..	..	..	3	..	..
100. Diseases of the Pharynx	11	..	..	..	..	..	..	..	..	..	..	2	..	1	..	..	..	7	..	1
101. Diseases of the Oesophagus	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
102. Ulcer of the Stomach	36	3	..	..	..	..	1	3	1	1	..	1	1	1	..	..	1	23	..	..
103. Other Diseases of the Stomach (cancer excepted)	165	..	1	7	3	..	..	20	..	3	1	18	5	8	1	..	1	92	1	4
104. Diarrhœa and Enteritis (under 2 years)	713	12	..	21	8	32	..	67	3	24	4	111	7	32	8	3	1	366	13	1
105. Diarrhœa and Enteritis (2 years and over)	66	..	1	2	..	4	..	6	4	..	..	11	..	1	1	3	1	32	..	..
108. Appendicitis and Typhlitis	112	2	2	6	2	..	3	11	6	3	..	19	3	2	1	1	..	46	4	1
109. Hernias, Intestinal Obstructions	99	1	1	1	..	..	5	9	1	7	1	12	..	2	5	2	2	45	4	1
110. Diseases of the Intestines	65	..	..	3	..	1	1	4	1	2	1	4	1	6	..	..	1	40	..	..
111. Acute yellow atrophy of the liver	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
112. Hydatid tumour of the liver	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
113. Cirrhosis of the Liver	47	1	2	..	1	1	2	5	..	3	..	6	1	1	1	1	..	20	..	2
114. Biliary Calculi	2	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
115. Other Diseases of the Liver	40	..	1	3	..	1	1	2	1	2	..	5	..	2	..	1	2	17	..	2
116. Diseases of the spleen	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
117. Simple Peritonitis (non-Puerperal)	48	..	1	1	1	1	1	8	..	1	2	1	..	1	2	3	..	22	1	1
118. Other Diseases of the Digestive System (cancer and tuberculosis excepted)	4	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	1	1	..	..

TABLE No. 11.—Continued.

OFFICIAL ENGLISH TRANSLATION. (Diseases and Causes of Death.)	Total.	Belleville.	Berlin.	Brantford.	Chatham.	Fort William.	Guelph.	Hamilton.	Kingston.	London.	Niagara Falls.	Ottawa.	Peterborough.	Port Arthur.	St. Catharines.	St. Thomas.	Stratford.	Toronto.	Windsor.	Woodstock.
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																				
Group Total	506	5	11	9	9	7	8	60	11	43	4	67	12	7	4	9	8	219	5	8
119. Acute Nephritis	62	2	1	2	..	..	..	2	..	4	..	13	1	..	..	..	4	32	1	..
120. Bright's Disease	310	2	8	3	6	4	6	38	7	30	3	42	7	5	2	6	1	132	2	6
122. Other Diseases of the Kidneys and Adnexa	27	..	..	..	..	..	..	7	1	2	..	2	..	..	1	1	..	13	..	..
123. Calculi of the Urinary Passages	17	..	..	..	1	2	..	2	..	..	..	3	1	..	1	..	2	5	..	..
124. Diseases of the Bladder	25	..	..	2	1	..	..	5	..	1	..	2	..	..	..	..	1	12	1	..
125. Diseases of the Urethra, Urinary Abscess, etc.	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..
126. Diseases of the Prostate	38	..	1	1	1	..	2	4	3	4	..	3	2	1	..	1	..	12	1	2
127. Non-venereal Diseases of the Male Genital Organs	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
128. Uterine Hæmorrhage (non-puerperal)	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
129. Uterine Tumor (non-Cancerous)	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
130. Other Diseases of the Uterus	4	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	2	..	..
131. Cysts and other Tumors of the Ovary	11	1	1	..	..	..	..	1	..	..	1	1	..	..	..	1	..	5	..	..
132. Salpingitis and other Diseases of the Female Genital Organs	7	..	..	1	..	1	..	..	..	1	..	..	..	1	..	..	..	3	..	..
VII.—The Puerperal State.																				
Group Total	184	..	3	3	..	5	2	26	4	7	1	12	6	8	4	1	5	90	6	1
134. Accidents of Pregnancy	41	..	1	..	..	1	..	3	..	..	..	2	1	5	2	1	1	21	3	..
135. Puerperal Hæmorrhage	7	..	..	..	..	..	..	1	..	..	..	2	..	..	..	..	..	4	..	..
136. Other Accidents of Labor	36	..	..	..	..	2	1	6	..	2	1	..	2	1	..	..	1	19	1	..
137. Puerperal Septicæmia	74	..	2	1	..	1	..	14	3	3	..	4	3	1	2	..	3	34	2	1
138. Puerperal Albuminuria and Convulsions	19	..	..	1	..	..	1	2	1	1	..	2	..	1	..	..	..	10	..	..
139. Puerperal Phlegmasia Alba Dolens, Embolus, Sudden Death	4	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	2	..	..
140. Following Childbirth (not otherwise defined)	3	..	..	1	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..
VIII.—Diseases of the Skin and of the Cellular Tissue.																				
Group Total	85	3	4	..	3	2	4	6	7	4	..	10	2	2	2	..	2	32	1	1
142. Gangrene	32	..	2	..	2	1	1	2	2	2	..	5	1	..	..	..	1	11	1	1
143. Furuncle	5	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	1	2	..	..
144. Acute Abscess	38	3	1	..	..	1	2	4	4	1	..	3	1	2	2	..	..	14	..	..
145. Other Diseases of the Skin and Adnexa	10	..	1	..	1	..	..	..	1	1	..	1	..	..	..	..	..	5	..	..
IX.—Diseases of the Bones and of the Organs of Locomotion.																				
Group Total	15	..	2	..	..	..	1	3	1	..	..	2	1	1	..	..	..	4	..	..
146. Diseases of the Bones (tuberculosis excepted)	14	..	2	..	..	..	1	3	1	..	..	1	1	1	..	..	..	4	..	..
147. Diseases of the Joints (tuberculosis and rheumatism excepted)	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
X.—Malformations.																				
Group Total	92	..	..	3	1	3	2	5	2	8	1	13	2	1	..	1	4	45	..	1
XI.—Diseases of Early Infanoy.																				
Group Total	1,439	13	14	34	15	40	17	138	48	57	12	246	12	35	19	19	13	670	25	12
151. Congenital Debility, Icterus and Sclerema	1,378	12	13	28	15	39	17	133	48	54	12	235	12	35	17	19	13	639	25	12
152. Other Diseases peculiar to Early Infancy	48	1	1	6	..	1	..	5	..	2	..	10	..	..	2	..	..	20	..	..
153. Lack of Care	13	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	11	..	..
154. **XII.—Old Age.**																				
Group Total	834	16	19	39	19	3	30	85	30	74	11	99	25	6	19	21	25	288	12	13
XIII.—Affections Produced by External Causes.																				
Group Total	690	10	5	21	10	48	12	71	18	25	11	56	13	31	11	14	13	297	20	4
155. Suicide by Poison	30	..	..	..	..	2	1	5	..	2	..	1	..	1	..	..	1	17	..	..
156. Suicide by Asphyxia	6	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	5	..	..
157. Suicide by Hanging or Strangulation	5	..	..	..	..	..	1	..	..	2	..	..	..	..	..	..	..	2	..	..

TABLE No. 11.—Concluded.

OFFICIAL ENGLISH TRANSLATION. (Diseases and Causes of Death.)	Total.	Belleville.	Berlin.	Brantford.	Chatham.	Fort William.	Guelph.	Hamilton.	Kingston.	London.	Niagara Falls.	Ottawa.	Peterborough.	Port Arthur.	St. Catharines.	St. Thomas.	Stratford.	Toronto.	Windsor.	Woodstock.
XIII.—Affections Produced by External Causes.—Continued.																				
158. Suicide by Drowning	3	..	..	..	..	..	..	1	....	....	..	....	..	..	..	..	1	1	..	..
159. Suicide by Firearms	7	..	..	..	1	..	..	2	1	....	..	3	..	..	..	..	..	....	..	..
160. Suicide by Cutting or Piercing Instruments	3	..	..	..	..	..	..	....	....	....	..	....	..	1	..	..	..	1	1	..
163. Other Suicides	3	..	..	..	..	..	..	....	....	....	..	....	1	..	..	..	..	1	1	..
164. Poisoning by Food	2	..	..	..	..	..	..	....	....	....	..	....	..	..	..	..	..	2	..	..
165. Other Acute Poisonings	21	..	..	..	..	2	..	5	....	....	1	3	..	1	..	1	..	8	..	..
166. Conflagration	3	..	..	..	..	1	..	....	....	....	..	....	..	..	1	..	..	....	..	1
167. Burns (conflagration excepted)	60	1	1	1	1	3	1	7	....	1	3	7	..	..	..	1	1	30	1	1
168. Absorption of Deleterious Gases (conflagration excepted)	37	..	..	..	..	2	..	1	....	1	..	....	..	..	..	1	..	32	..	..
169. Accidental Drowning	62	..	..	5	1	4	2	7	2	3	3	7	3	6	3	..	..	15	1	..
170. Traumatism by Firearms	13	..	..	..	..	3	1	1	....	....	..	2	2	2	..	..	..	1	1	..
172. Traumatism by Fall	37	..	..	..	1	1	2	....	1	1	..	6	1	1	..	1	1	20	1	..
173. Traumatism in Mines and Quarries	2	..	..	..	..	2	..	....	....	....	..	....	..	..	..	..	..	....	..	..
174. Traumatism by Machines	11	..	1	..	..	1	1	2	....	1	..	1	..	..	1	..	..	3	..	..
175. Traumatism by other Crushing (vehicles, railroad, landslides, etc.)	136	6	1	4	1	16	..	25	3	6	..	7	1	10	1	4	1	44	6	..
176. Injuries by Animals	3	..	..	..	..	..	..	....	....	1	..	....	1	..	..	..	1	....	..	..
178. Excessive Cold	4	..	..	..	..	..	..	....	....	....	..	1	..	..	..	1	..	2	..	..
179. Effects of Heat	7	1	..	..	..	1	..	....	....	....	..	2	..	1	..	..	..	2	..	..
180. Lightning	1	..	..	..	..	..	..	....	....	....	..	....	..	..	..	..	..	....	1	..
181. Electricity (lightning excepted)	20	..	1	2	..	2	..	1	1	....	2	....	..	1	1	..	..	9	..	..
182. Homicide by Firearms	2	..	..	..	..	..	..	1	....	....	..	1	..	..	..	..	..	....	..	..
183. Homicide by Cutting or Piercing Instruments	1	..	..	..	..	..	..	....	....	....	..	....	..	..	..	..	..	1	..	..
184. Homicide by other means	3	..	..	..	..	..	..	....	....	....	..	1	..	..	1	..	..	1	..	..
185. Fractures (cause not specified)	107	2	..	6	2	5	2	8	1	3	..	8	..	5	3	4	6	46	5	1
186. Other External Violence	101	..	1	3	3	3	1	5	9	3	2	6	4	2	..	1	1	54	2	1
XIV.—Ill-Defined Diseases.																				
Group Total	189	3	1	4	..	4	4	29	10	18	1	30	2	1	5	8	5	58	5	1
187. Ill-Defined Organic Disease	3	..	..	..	..	1	..	....	1	....	..	1	..	..	..	..	..	....	..	..
188. Sudden Death	14	1	..	1	..	..	1	4	....	....	..	2	..	..	1	..	..	3	1	..
189. Causes of Death not Specified or Ill-defined	172	2	1	3	..	3	3	25	9	18	1	27	2	1	4	8	5	55	4	1
Still-Births.																				
Not included in totals	1,252	5	17	29	14	33	17	153	25	67	9	161	30	33	11	14	14	587	19	14

TABLE No. 12.

Table Showing Total Deaths by Individual Diseases in each Town of 5,000 population, 1912.

OFFICIAL ENGLISH TRANSLATION. (Diseases and Causes of Death.)	Total.	Barrie.	Brockville.	Cobalt.	Cobourg.	Collingwood.	Cornwall.	Galt.	Kenora.	Lindsay.	North Bay.	North Toronto.	Orillia.	Oshawa.	Owen Sound.	Pembroke.	Port Hope.	Sarnia.	Sault Ste. Marie.	Smith's Falls.	Welland.
Grand Total	2,446	114	178	89	116	96	164	127	113	103	141	47	103	107	162	131	62	206	226	120	41
I.—General Diseases.																					
Group Total	618	26	56	15	26	22	40	30	28	25	31	20	19	30	44	38	10	50	69	31	8
1. Typhoid Fever	72	3	6	3	1	1	4	2	2	3	3	..	2	4	1	3	4	14	10	3	2
2. Typhus fever	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
6. Measles	27	..	1	..	..	..	..	..	2	..	2	..	..	1	11	..	..	2	7	1	..
7. Scarlet Fever	6	..	..	..	..	..	1	1	4	..	..	..	..	..	..	..	..	..	..	..	..
8. Whooping Cough	42	3	4	..	..	3	3	1	1	3	..	8	..	5	..	6	..	1	..	2	2
9. Diphtheria and Croup	29	..	..	2	4	2	..	..	..	..	6	1	..	..	..	3	..	..	9	2	..
10. Influenza	5	..	..	..	..	..	..	1	..	1	..	..	1	1	..	1	..	..	..	..	..
14. Dysentery	3	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	1	..	..
18. Erysipelas	9	..	..	..	..	..	..	2	1	..	1	1	1	..	..	1	..	1	1	..	..
20. Purulent Infection and Septichæmia	6	..	..	..	..	1	..	..	..	..	..	..	1	..	..	1	..	1	1	..	..
28. Tuberculosis of the Lungs	150	3	17	4	7	6	5	6	6	7	10	4	7	8	12	6	2	8	19	10	3
29. Acute Miliary Tuberculosis	2	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
30. Tuberculous Meningitis	7	..	1	..	..	..	1	..	1	..	..	..	..	2	1	..	..	..	1	..	..
31. Abdominal Tuberculosis	14	..	3	..	..	..	4	2	..	..	..	1	..	..	..	1	..	..	2	1	..
33. White swelling	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..
34. Tuberculosis of other Organs	4	..	1	..	..	..	1	1	..	..	..	..	..	..	..	1	..	..	..	..	..
36. Rickets	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
37. Syphilis	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
39. Cancer and other Malignant Tumors of the Buccal Cavity	9	..	1	..	3	1	1	..	..	..	..	..	1	..	..	..	..	1	1	..	..
40. Cancer and other Malignant Tumors of the Stomach, Liver	30	1	4	..	1	1	3	3	..	1	2	..	1	3	3	1	..	1	2	3	..
41. Cancer and other Malignant Tumors of the Peritonæum, intestines, rectum.	26	2	3	..	4	1	3	1	2	3	..	..	..	1	3	1	..	1	..	1	..
42. Cancer and other Malignant Tumors of the Female Genital Organs	17	2	..	..	2	..	1	2	..	..	1	1	1	1	1	2	..	..	3	..	..
43. Cancer and other Malignant Tumors of the Breast	8	1	1	..	..	..	..	..	1	..	..	1	..	1	2	1	..	..	..	..	..
45. Cancer and other Malignant Tumors of other Organs and of Organs not Specified	48	2	8	2	3	..	5	2	..	3	1	1	3	..	2	2	..	5	4	5	..
47. Acute Articular Rheumatism	5	..	..	..	..	1	1	..	1	..	..	..	..	..	..	1	..	..	1	..	..
48. Chronic Rheumatism and Gout	18	1	..	..	..	1	2	3	..	1	2	..	..	..	2	2	..	3	1	..	..
50. Diabetes	20	3	2	2	1	1	..	..	1	1	1	..	1	1	1	2	1	2	..	..	..
51. Exophthalmic Goitre	4	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	1	1	..	..
52. Addison's disease	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..
53. Leuchæmia	4	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	2	..	1	..
54. Anæmia, Chlorosis	31	4	3	1	..	3	3	1	1	1	2	..	..	1	2	1	..	4	1	2	1
55. Other general diseases	3	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	1	..	..
56. Alcoholism (Acute or Chronic)	14	..	1	1	..	..	1	1	2	1	..	..	..	..	1	..	1	2	3	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																					
Group Total	212	12	18	8	15	8	15	12	4	7	4	3	13	6	8	14	9	22	21	9	4
60. Encephalitis	2	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
61. Simple Meningitis	33	3	2	2	1	..	4	1	2	2	2	..	..	..	2	1	1	6	3	..	1
62. Locomotor Ataxia	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1
63. Other Diseases of the Spinal Cord	4	..	1	..	..	1	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..
64. Cerebral Hæmorrhage, Apoplexy	73	2	9	1	5	4	7	1	..	2	..	3	5	1	2	5	4	9	8	5	..
65. Softening of the Brain	2	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
66. Paralysis Without Specified Cause	28	2	1	..	1	1	1	7	..	1	1	..	2	2	2	..	3	1	1	2	..
67. General paralysis of the insane	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
69. Epilepsy	4	1	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	1	..	..	..
70. Convulsions (non-puerperal)	7	..	..	..	..	..	2	..	2	..	..	1	..	..	..	1	..	1	..	..	..
71. Convulsions of Infants	38	3	2	3	2	1	2	1	..	..	..	2	1	2	6	..	1	8	2	2	
72. Chorea	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
73. Neuralgia and Neuritis	5	..	..	1	1	..	..	..	1	..	1	..	1	..	..	..	..	..	..	..	..
74. Other Diseases of the Nervous System	8	..	2	..	4	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..
76. Diseases of the Ears	4	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..

TABLE No. 12—Continued.

OFFICIAL ENGLISH TRANSLATION. (Diseases and Causes of Death.)	Total.	Barrie.	Brockville.	Cobalt.	Cobourg.	Collingwood.	Cornwall.	Galt.	Kenora.	Lindsay.	North Bay.	North Toronto.	Orillia.	Oshawa.	Owen Sound.	Pembroke.	Port Hope.	Sarnia.	Sault Ste. Marie.	Smith's Falls.	Welland.
III.—Diseases of the Circulatory System.																					
Group Total	247	10	27	3	19	9	10	10	16	11	8	2	12	11	22	10	4	32	11	17	3
77. Pericarditis	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..
78. Acute Endocarditis	12	..	1	..	..	..	..	4	..	..	..	2	2	1	1	..	..	..	1	..	..
79. Organic Diseases of the Heart	159	7	18	2	14	9	7	4	8	7	4	..	8	8	19	5	3	17	7	9	3
80. Angina Pectoris	5	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	..
81. Diseases of the Arteries, Atheroma, Aneurysm, etc.	63	3	6	..	5	..	3	2	8	4	3	..	1	2	2	5	..	13	..	6	..
82. Embolism and Thrombosis	5	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	3	..	..
83. Diseases of the veins (varices, hemorrhoids, phlebitis, etc.)	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
85. Hæmorrhage; Other Diseases of the Circulatory System.	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..
IV.—Diseases of the Respiratory System.																					
Group Total	209	16	11	7	4	8	14	12	9	8	14	5	12	17	18	13	5	11	22	6	7
87. Diseases of the larynx	3	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	1
89. Acute Bronchitis	20	..	..	1	..	1	2	..	..	..	1	..	1	3	4	1	..	2	4	..	..
90. Chronic Bronchitis	22	2	1	..	..	..	5	2	1	..	2	..	..	..	2	4	..	2	..	..	1
91. Broncho-pneumonia	23	..	3	..	..	..	..	..	1	..	2	..	1	3	6	..	1	..	3	1	2
92. Pneumonia	111	3	7	4	2	4	6	9	5	5	7	4	8	6	5	8	3	6	13	3	3
93. Pleurisy	12	1	..	1	2	1	..	..	..	2	..	..	1	1	..	..	1	..	1	1	..
94. Pulmonary Congestion, Pulmonary Apoplexy	7	..	..	1	..	..	1	..	1	1	..	..	..	1	1	..	..	1	..	..	..
95. Gangrene of the Lung	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..
96. Asthma	8	..	..	..	..	2	..	1	..	..	1	..	1	3	..	..	..	..	..	..	..
98. Other Diseases of the Respiratory System (Tuberculosis Excepted)	2	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..
V.—Diseases of the Digestive System.																					
Group Total	226	9	21	10	8	7	21	13	7	13	19	6	3	5	11	15	1	18	26	12	1
99. Diseases of the mouth and adnexa	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
100. Diseases of the Pharynx	4	..	..	1	..	..	..	1	..	..	1	..	..	..	..	..	..	1	..	..	..
102. Ulcer of the Stomach	9	2	2	..	..	..	..	2	..	..	..	..	..	..	..	1	..	1	..	1	..
103. Other Diseases of the Stomach (Cancer Excepted)	15	..	..	1	..	..	1	2	..	1	2	1	..	..	2	1	..	..	3	1	..
104. Diarrhœa and Enteritis (under 2 years)	79	3	6	6	1	1	9	1	3	4	8	3	2	2	5	5	..	8	9	3	..
105. Diarrhœa and Enteritis (2 years and over.)	11	1	..	..	3	..	..	..	1	1	1	1	..	..	..	..	..	2	..	1	..
108. Appendicitis and Typhlitis	42	1	3	..	1	1	5	5	3	2	7	..	1	1	1	1	..	3	6	3	..
109. Hernias, Intestinal Obstructions.	25	2	2	1	1	1	3	2	..	2	..	..	..	1	1	2	..	1	4	2	..
110. Diseases of the Intestines	5	..	1	1	..	1	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..
111. Acute yellow atrophy of the liver	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
113. Cirrhosis of the Liver	3	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..
115. Other Diseases of the Liver	9	..	2	..	2	1	..	..	..	1	..	..	..	1	..	1	1	..	..	..	..
116. Diseases of the spleen	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..
117. Simple Peritonitis (Non-puerperal)	21	..	3	..	..	2	3	2	..	2	..	..	..	..	..	4	..	..	4	1	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																					
Group Total	88	3	5	..	5	2	12	4	3	8	3	1	7	3	7	5	1	10	6	1	2
119. Acute Nephritis	6	1	..	..	..	..	..	..	..	2	..	..	..	1	1	1	..	..	..	..	..
120. Bright's Disease	61	1	3	..	4	1	8	3	2	5	3	..	6	1	6	3	..	9	3	1	2
122. Other Diseases of the Kidneys and Adnexa	6	1	..	..	1	1	1	..	..	..	..	..	..	..	..	1	..	..	1	..	..
123. Calculi of the Urinary Passages	4	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	1	1	..	..
124. Diseases of the Bladder	2	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..
126. Diseases of the Prostate	7	..	2	..	..	..	1	1	..	1	..	..	1	..	..	..	1	..	..	..	..
127. Nonvenereal diseases of the male genital organs	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..
132. Salpingitis and other diseases of the female genital organs	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
VII.—The Puerperal State.																					
Group Total	39	3	1	1	..	1	5	2	..	..	5	2	3	2	3	1	1	3	4	1	1
134. Accidents of pregnancy	10	1	..	..	..	..	1	..	..	..	..	1	1	..	1	..	..	2	2	1	..
135. Puerperal haemorrhage	4	..	..	..	..	1	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..
136. Other accidents of labor	5	..	..	..	..	..	..	..	..	..	3	..	..	..	..	..	1	..	1	..	..
137. Puerperal septichaemia	9	2	1	..	..	..	1	..	..	..	..	..	..	1	1	1	..	1	1	..	..
138. Puerperal albuminuria and convulsions	11	..	..	1	..	..	..	2	..	..	2	1	2	1	1	..	..	..	..	..	1

TABLE No. 12—Concluded.

OFFICIAL ENGLISH TRANSLATION. (Diseases and Causes of Death.)	Total.	Barrie.	Brockville.	Cobalt.	Cobourg.	Collingwood.	Cornwall.	Galt.	Kenora.	Lindsay.	North Bay.	North Toronto.	Orillia.	Oshawa.	Owen Sound.	Pembroke.	Port Hope.	Sarnia.	Sault Ste. Marie.	Smith's Falls.	We and.
VIII.—Diseases of the Skin and of the Cellular Tissue.																					
Group Total	14	..	3	..	1	1	2	1	..	..	2	..	1	....	....	....	....	1	....	1	1
142. Gangrene	11	..	2	..	1	1	2	..	..	..	1	..	1	....	....	....	....	1	....	1	1
144. Acute Abscess	3	..	1	..	..	..	..	1	..	..	1	..	..	....	....	....	....	....	....	....	..
IX.—Diseases of the Bones and of the Organs of Locomotion.																					
Group Total	3	..	..	..	..	..	1	1	..	..	..	..	..	....	....	....	....	1	....	....	..
146. Diseases of the Bones (tuberculosis excepted)	2	..	..	..	..	..	1	1	..	..	..	..	..	....	....	....	....	....	....	....	..
147. Diseases of the join s (tuberculosis and rheumatism excepted)	1	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	....	1	....	....	..
X.—Malformations.																					
Group Total	12	..	..	2	..	1	1	..	..	..	2	1	1	....	1	....	....	1	1	1	..
XI.—Diseases of Early Infancy.																					
Group Total	285	13	15	32	6	18	9	10	11	8	19	2	19	18	21	12	8	20	20	17	7
151. Congenital Debility, Icterus and Sclerema	273	13	13	28	6	18	9	10	11	7	18	2	19	17	21	12	8	19	19	16	7
152. Other Diseases Peculiar to Early Infancy	10	..	1	4	..	..	..	..	..	1	1	..	..	....	....	....	....	1	1	1	..
153. Lack of Care	2	..	1	..	..	..	..	..	..	..	..	..	..	1	....	....	....	....	....	....	..
XII.—Old Age.																					
Group Total	241	25	12	..	24	15	23	21	..	13	7	3	9	8	16	10	15	20	10	7	3
XIII.—Affections Produced by External Causes.																					
Group Total	205	7	7	11	7	2	8	10	29	6	24	1	1	5	9	11	8	14	27	14	4
155. Suicide by Poison	2	..	2	..	..	..	..	..	..	..	..	..	..	....	....	....	....	....	....	....	..
157. Suicide by Hanging or Strangulation	2	..	..	..	..	..	..	..	..	..	1	..	..	....	....	....	....	....	....	....	1
158. Suicide by drowning	3	..	..	..	..	..	..	..	..	..	1	..	..	....	1	....	1	....	....	....	..
159. Suicide by Firearms	1	..	..	1	..	..	..	..	..	..	..	..	..	....	....	....	....	....	....	....	..
160. Suicide by cutting or piercing instruments	1	..	..	..	..	..	..	..	1	..	..	..	..	....	....	....	....	....	....	....	..
165. Other Acute Poisonings	10	..	1	1	..	..	..	..	..	..	..	..	..	....	1	....	1	1	2	3	..
166. Conflagration	1	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	....	....	1	....	..
167. Burns (Conflagration Excepted)	12	..	..	..	..	..	..	..	1	..	2	..	..	2	1	....	....	1	1	3	1
168. Absorption of deleterious gases (conflagration excepted)	5	..	..	1	..	..	..	1	1	1	..	..	..	....	....	....	....	1	....	....	..
169. Accidental Drowning	36	1	..	..	1	..	1	2	9	1	3	1	..	....	....	3	1	1	8	4	..
170. Traumatism by Firearms	12	1	..	..	1	..	..	1	1	1	3	..	..	....	....	1	1	....	2	....	..
172. Traumatism by Fall	8	..	1	2	..	1	..	2	..	..	..	..	..	1	....	1	....	....	....	....	..
173. Traumatism in mines and quarries	2	..	..	..	..	..	..	..	1	..	..	..	..	....	....	....	....	....	1	....	..
174. Traumatism by machines	2	..	..	..	..	..	..	..	1	..	..	..	..	....	....	....	....	....	1	....	..
175. Traumatism by Other Crushing (vehicles, railroad, landslides, etc)	43	4	..	1	2	..	2	2	9	1	6	..	..	2	....	3	1	3	5	1	1
176. Injuries by animals	1	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	....	....	....	..
178. Excessive Cold	4	..	..	..	1	..	..	..	..	..	1	..	..	....	....	....	....	1	1	....	..
179. Effects of Heat	3	..	..	..	..	1	..	..	..	..	2	..	..	....	....	....	....	....	....	....	..
180. Lightning	1	..	..	..	..	..	..	..	1	..	..	..	..	....	....	....	....	....	....	....	..
181. Electricity (lightning excepted)	5	..	..	..	..	..	1	..	..	..	..	..	..	....	1	....	1	2	....	....	..
185. Fractures (Cause not Specified)	32	1	3	5	2	..	2	1	4	..	1	..	..	....	3	1	....	4	3	1	1
186. Other External Violence	19	..	..	..	..	..	2	1	..	2	4	..	1	....	1	2	2	....	2	2	..
XIV.—Ill-Defined Diseases.																					
Group Total	47	..	2	..	1	2	3	1	6	4	3	1	3	2	2	2	....	3	9	3	..
188. Sudden death	3	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	....	....	2	1	..
189. Cause of Death not Specified or Ill-defined	44	..	2	..	1	2	3	1	6	4	3	1	3	2	2	2	....	3	7	2	..
190. XV.—Still-Births.																					
Group Total	217	5	12	18	10	6	9	13	..	8	23	4	12	11	15	4	11	15	29	8	4

TABLE No. 13.

Showing Infant Mortality under 5 years of age in Ontario, 1912.

OFFICIAL ENGLISH TRANSLATION. (DISEASES AND CAUSES OF DEATH.)	Total.	Under 1 Yr.	1 Year.	2 Years.	3 Years.	4 Years.
Grand Total	8,230	6,494	915	374	255	192
I.—GENERAL DISEASES. Group Total	1,120	556	237	132	105	90
1. Typhoid Fever	19	2	7	8	.....	2
5. Smallpox	2	2	.....	.....	.....	.....
6. Measles	94	36	30	8	10	10
7. Scarlet Fever	85	15	15	19	23	13
8. Whooping Cough	404	284	85	18	10	7
9. Diphtheria and Croup	193	45	35	42	40	31
10. Influenza	35	19	7	3	.....	6
13. Cholera nostras	1	1	.....	.....	.....	.....
14. Dysentery	42	26	9	4	2	1
18. Erysipelas	27	23	3	1	.....	.....
19. Other epidemic Diseases	3	2	.....	.....	1	.....
20. Purulent Infection and Septichæmia	13	10	1	2	.....	.....
24. Tetanus	2	1	.....	.....	.....	1
28. Tuberculosis of the Lungs	37	15	10	7	1	4
29. Acute miliary tuberculosis	4	1	2	.....	.....	1
30. Tuberculous Meningitis	70	30	13	11	7	9
31. Abdominal Tuberculosis	9	4	3	1	1	.....
34. Tuberculosis of other Organs	3	2	1	.....	.....	.....
35. Disseminated tuberculosis	2	1	.....	.....	.....	1
36. Rickets	18	10	7	1	.....	.....
37. Syphilis	13	10	3	.....	.....	.....
39. Cancer and other malignant tumors of the buccal cavity	1	.....	.....	.....	1	.....
40. Cancer and other malignant tumors of the stomach, liver	1	.....	.....	.....	.....	1
45. Cancer and other malignant tumors of other organs and of organs not specified	4	.....	2	1	1	.....
47. Acute Articular Rheumatism	4	1	.....	.....	2	1
49. Scurvy	1	.....	.....	1	.....	.....
50. Diabetes	5	.....	1	.....	3	1
53. Leuchæmia	2	.....	.....	1	.....	1
54. Anæmia Chlorosis	13	7	3	1	2	.....
55. Other General Diseases	13	9	.....	3	1	.....
II.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE. Group Total	688	471	103	55	38	21
60. Encephalitis	4	2	.....	.....	1	1
61. Simple Meningitis	215	116	50	22	15	12
62. Locomotor ataxia	3	.....	.....	1	1	1
63. Other Diseases of the Spinal Cord	30	11	9	4	2	4
64. Cerebral Hæmorrhage, Apoplexy	1	.....	.....	1	.....	.....
66. Paralysis without specified cause	1	1	.....	.....	.....	.....
68. Other forms of mental alienation	1	.....	1	.....	.....	.....
69. Epilepsy	9	4	.....	.....	4	1
71. Convulsions of Infants	405	329	41	24	9	2
73. Neuralgia and neuritis	1	1	.....	.....	.....	.....
74. Other Diseases of the Nervous System	8	2	1	2	3	.....
75. Diseases of the eyes and their adnexa	1	1	.....	.....	.....	.....
76. Diseases of the Ears	9	4	1	1	3	.....

TABLE No. 13.—Continued.

Showing Infant Mortality under 5 years of age in Ontario, 1912.—Continued.

OFFICIAL ENGLISH TRANSLATION. (DISEASES AND CAUSES OF DEATH.)	Total.	Under 1 Yr.	1 Year.	2 Years.	3 Years.	4 Years.
III.—DISEASES OF THE CIRCULATORY SYSTEM.						
Group Total	22	7	7	4	3	1
77. Pericarditis	1	1	.....	.....	.....	.....
78. Acute Endocarditis	6	1	3	1	.....	1
79. Organic Diseases of the Heart	9	1	3	3	2	.....
80. Angina pectoris	1	1	.....	.....	.....	.....
83. Diseases of the veins (varices, hemorrhoids, phlebitis, etc.)	1	.....	.....	.....	1	.....
84. Diseases of the Lymphatic System (Lymphangitis, etc.)	2	2	.....	.....	.....	.....
85. Hæmorrhage; other diseases of the circulatory system	2	1	1	.....	.....	.....
IV.—DISEASES OF THE RESPIRATORY SYSTEM.						
Group Total	1,040	673	237	68	38	24
87. Diseases of the Larynx	19	10	1	2	4	2
89. Acute Bronchitis	179	127	42	2	4	4
90. Chronic Bronchitis	52	36	15	.....	1	.....
91. Broncho-Pneumonia	337	218	76	30	8	5
92. Pneumonia	419	263	93	33	19	11
93. Pleurisy	11	4	5	.....	1	1
94. Pulmonary Congestion, Pulmonary Apoplexy.	20	15	4	1	.....	.....
95. Gangrene of the lung	1	.....	.....	.....	.....	1
96. Asthma	2	.....	1	.....	1	.....
V. DISEASES OF THE DIGESTIVE SYSTEM.						
Group Total	1,526	1,236	209	45	20	16
99. Diseases of the mouth and aduexa	8	6	1	.....	.....	1
100. Diseases of the Pharynx	12	4	2	2	2	2
101. Diseases of the oesophagus	1	.....	.....	1	.....	.....
102. Ulcer of the Stomach	7	7	.....	.....	.....	.....
103. Other Diseases of the Stomach (Cancer excepted)	192	167	16	5	3	1
104. Diarrhœa and Enteritis (under 2 years)	1,146	979	167	.....	.....	.....
105. Diarrhœa and Enteritis (2 years and over)	50	.....	.....	30	12	8
108. Appendicitis and Typhlitis	6	.....	3	.....	1	2
109. Hernias, Intestinal Obstructions	22	20	1	.....	.....	1
110. Diseases of the Intestines	60	41	14	4	1	.....
113. Cirrhosis of the liver	1	.....	.....	.....	1	.....
115. Other Diseases of the Liver	5	3	1	1	.....	.....
117. Simple Peritonitis, (non-puerperal)	15	9	4	2	.....	1
VI. NON-VENEREAL DISEASES OF THE GENITO-URINARY SYSTEM AND ADNEXA.						
Group Total	35	20	4	3	7	1
119. Acute Nephritis	27	17	2	2	5	1
120. Bright's Disease	3	3	.....	.....	.....	.....
122. Other Diseases of the Kidneys and Adnexa	3	.....	2	.....	1	.....
123. Calculi of the urinary passages	1	.....	.....	.....	1	.....
125. Diseases of the urethra, urinary abscess, etc.	1	.....	.....	1	.....	.....

TABLE No. 13.—Concluded.

Showing Infant Mortality under 5 years of age in Ontario, 1912.—Concluded.

OFFICIAL ENGLISH TRANSLATION. (DISEASES AND CAUSES OF DEATH.)	Total.	Under 1 Yr.	1 Year.	2 Years.	3 Years.	4 Years.
VIII.—DISEASES OF THE SKIN AND OF THE CELLULAR TISSUE. Group Total	21	16	4	1	.....	.....
143. Furuncle	1	.....	1	.....	.....	.....
144. Acute Abscess	9	7	2	.....	.....	.....
145. Other Diseases of the Skin and Adnexa	11	9	1	1	.....	.....
IX.—DISEASES OF THE BONES AND OF THE ORGANS OF LOCOMOTION. Group Total	4	2	.....	1	.....	1
146. Diseases of the bones (Tuberculosis excepted)	3	1	.....	1	.....	1
147. Diseases of the joints (tuberculosis and rheumatism excepted)	1	1	.....	.....	.....	.....
X.—MALFORMATIONS. Group Total	.....	.....	.....	.....	.....	.....
150. Congenital malformations (stillbirths not included)	217	217	.....	.....	.....	.....
XI.—DISEASES OF EARLY INFANCY. Group Total	3,235	3,235	.....	.....	.....	.....
151. Congenital Debility, Icterus and Sclerema	3,101	3,101	.....	.....	.....	.....
152. Other Diseases peculiar to early Infancy	105	105	.....	.....	.....	.....
153. Lack of Care	29	29	.....	.....	.....	.....
XIII.—AFFECTIONS PRODUCED BY EXTERNAL CAUSES. Group Total	170	29	44	46	23	28
164. Poisoning by food	2	.....	1	1	.....	.....
165. Other Acute Poisonings	21	5	9	7	.....	.....
166. Conflagration	9	1	3	2	1	2
167. Burns (Conflagration excepted)	49	3	11	16	9	10
168. Absorption of Deleterious Gases (Conflagration excepted)	10	3	.....	4	2	1
169. Accidental Drowning	29	2	8	7	4	8
170. Traumatism by Firearms	2	.....	.....	.....	2	.....
172. Traumatism by Fall	5	2	3	.....	.....	.....
174. Traumatism by machines	1	.....	.....	1	.....	.....
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	10	.....	3	1	3	3
176. Injuries by animals	2	.....	.....	1	1	.....
178. Excessive cold	1	1	.....	.....	.....	.....
179. Effects of heat	3	.....	1	2	.....	.....
184. Homicide by other means	4	2	1	.....	....	1
185. Fracture (cause not specified)	4	2	.....	1	1	.....
186. Other External Violence	18	8	4	3	.....	3
XIV.—ILL-DEFINED DISEASES. Group Total	152	32	70	19	21	10
187. Illdefined organic disease	1	1	.....	.....	.....	.....
188. Sudden death	2	2	.....	.....	.....	.....
189. Cause of Death not Specified or Ill-defined	149	29	70	19	21	10
190. XV.—STILL-BIRTHS. Group Total	.....	.....	.....	.....	.....	.....

TABLE No. 14.

Deaths by Occupations—Counties, 1912.

Occupations.	Total.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.
Total deaths	32,150									
Total males and females	22,875	702	2,151	2,216	2,174	2,663	3,791	4,960	3,813	404
Deaths under 15	9,275									
Total males	12,333	376	1,180	1,135	1,151	1,480	2,031	2,703	2,000	277
Total females	10,542	327	971	1,081	1,023	1,183	1,760	2,257	1,813	127
Male.										
Agents	99	2	5	12	13	15	24	23	5	
Architects	4		3				1			
Artists and Photographers	7		1	2	1	1	2			
Bakers and Confectioners	32	2	3	3	8	6	6	4		
Bankers	8		1	1	1	2		3		
Barbers	34		6	13	9	4		1	1	
Bartenders	26		5	12	5	1	3			
Blacksmiths	106		8	14	10	18	23	22	11	
Boilermakers	7		1	3				3		
Bookbinders	5		1	2	1			1		
Bookkeepers and Accountants	66	2	12	9	6	11	8	8	4	1
Brakesmen	52	2	29	10	6	2	1			2
Brassfinishers	3		1	1	1					
Brewers and Distillers	5			1	2			2		
Brickmakers	17	2	1	2	3	2	5	1	1	
Brokers	30			5	8	5	6	5	1	
Builders and Contractors	68		2	4	8	16	16	16	6	
Butchers	49		4	6	9	14	5	9	2	
Cabinetmakers	35		4	3	3	5	8	6	6	
Carpenters	294	4	16	27	30	48	64	72	31	2
Carriage and Wagonmakers	30		2		3	6	3	14	2	
Chaffeurs	2		1	1						
Cheesemakers	15		7	1	2	1	3	1		
Chemists and Druggists	22		2	5	4	6	2	2	1	
Cigarmakers	15		6	2		5	1	1		
Civil Engineers	22		4	6	2	2	5		3	
Civil Servants	71		1	7	3	19	23	15	2	1
Clergymen	64		2	2	5	15	14	18	8	
Clerks	199	30	62	32	28	14	15	11	3	4
Commercial Travellers	64		8	14	8	11	15	5		3
Cooks and Chefs	24	1	4	2	7	4	1	2	1	2
Coopers	33	1	1		3	4	9	8	6	1
Dentists	7		2	1	1	1	1	1		
Drovers	17			3	2	4	4	3	1	
Electricians	22	1	5	6	5	3	1			1
Engineers, Marine	7			5	1	1				
" Railroad	18		5	2	3	6	1	1		
" Stationary	12		1	2	2	2	4	1		
" Unspecified	67	1	4	12	14	15	8	10	3	
Factory Hands	37	3	7	4	9	5	7	2		
Farmers	3,347	77	174	172	217	368	630	929	747	33
Firemen, Civic	3						1	1		1
" Marine	2			2						
" Railroad	22	2	12	5						3
" Unspecified	19	1	5	4	3	4	2			
Foremen	35		5	5	7	8	8	1	1	
Furriers	7		1	1	2	1	1		1	
Gardeners	90	1	3	5	8	12	16	27	17	1
Government Officials	41				2	4	13	18	4	
Harness Makers	23		1	3	2	5	3	7	2	
Hotelkeepers	42			4	10	13	7	7	1	
Hucksters and Pedlars	5			2		1	1	1		
Hunters and Fishermen	19	1	3	1	1	3	3	4	3	
Inmates of Institutions	667	4	30	50	65	78	108	162	162	8
Journalists	12		3	1	1	2	3	2		
Laborers	1,574	63	291	235	207	195	234	181	106	62
Laundrymen	14	1	6	3	2	2				
Lawyers and Barristers	26			1	2	7	3	12	1	
Linemen	21	1	8	6	1	4				1
Liverymen and Hostlers	20	1			6	5	5	3		
Lumbermen	85	4	9	13	9	14	20	7	6	3
Machinists	111	2	23	21	18	16	16	13	2	
Managers and Superintendents	45		2	9	11	8	10	5		
Manufacturers	34		1	3	3	8	7	9	3	
Masons	76	1	2	7	11	16	15	15	9	
Mechanics	44	1	9	9	5	4	8	6	1	1
Merchants	256		9	18	42	52	71	51	10	3
Milkmen	3		1		1		1			

TABLE No. 14 -Concluded.

Deaths by Occupations—Counties, 1912—Concluded.

Occupations—Male.	Total.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.
Millers	29	.....	.....	2	1	3	9	11	3	.....
Mill Hands	33	2	4	8	4	4	4	7	.....	.....
Millwrights	15	.....	.....	3	1	4	3	2	2	.....
Miners	52	.....	19	8	10	5	4	.....	1	5
Moulders	41	1	7	10	6	6	8	3	.....	.....
Music Teachers and Musicians	14	1	1	2	3	2	.....	3	1	1
Painters and Decorators	90	1	11	13	15	18	19	8	4	1
Physicians and Veterinary Surgeons	53	.....	1	5	12	10	7	9	9	.....
Plasterers and Lathers	24	.....	5	5	4	2	2	4	2	.....
Plumbers and Steamfitters	21	.....	4	6	1	3	3	2	1	1
Policemen	11	.....	2	3	2	1	2	1	.....	.....
Polishers and Grainers	16	1	1	7	1	4	1	.....	.....	1
Printers	38	7	9	5	5	7	5	.....	.....	.....
Public Officials	16	.....	.....	.....	.....	2	3	8	3	.....
Railroad Employees	155	1	33	33	22	21	26	10	4	5
Sailors	60	4	11	8	4	5	9	9	6	4
Salesmen	28	1	7	4	6	4	5	.....	.....	.....
School Teachers	36	.....	10	8	2	6	4	4	2	.....
Servants, Porters and Stewards	57	5	11	11	14	8	4	2	1	1
Shoemakers	77	.....	3	3	10	11	17	15	17	1
Soldiers	12	.....	4	3	2	.....	.....	3	.....	.....
Steel and Iron Workers	32	1	10	6	6	4	3	2	.....	.....
Stenographers	2	.....	1	1	.....	.....	.....	.....	.....	.....
Stonecutters	21	.....	2	5	5	7	1	1	.....	.....
Street Railway Employees	17	.....	3	7	2	5	.....	.....	.....	.....
Students	73	50	21	2	.....	.....	.....	.....	.....	.....
Tailors	52	2	3	7	9	7	5	11	6	2
Tanners and Curriers	8	.....	.....	1	.....	3	2	2	.....	.....
Teamsters and Drivers	140	5	28	31	22	25	14	10	5	.....
Telegraph and 'Phone Operators	15	1	5	2	2	3	1	1	.....	.....
Tinsmiths	31	3	7	2	2	9	5	2	1	.....
Undertakers	8	.....	.....	.....	2	1	2	1	2	.....
Upholsterers	4	.....	1	1	1	1	.....	.....	.....	.....
Watchmakers and Jewellers	25	2	7	1	2	2	5	5	1	.....
Watchmen and Caretakers	51	.....	3	4	6	8	16	13	1	.....
Weavers	25	.....	3	2	1	4	2	5	7	1
Woodworkers	16	1	2	3	1	.....	4	2	3	.....
Other occupations	181	9	35	35	24	20	30	17	8	3
No occupations	2,416	67	76	61	79	151	331	797	736	118
Female.										
Artists	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Bookkeepers and Accountants	21	2	11	3	4	.....	.....	.....	.....	1
Civil Servants	6	.....	.....	.....	.....	1	4	1	.....	.....
Clerks	28	6	15	3	2	2	.....	.....	.....	.....
Cooks	6	.....	.....	2	1	.....	1	1	.....	1
Domestics and Housekeepers	510	29	53	40	52	84	105	89	52	6
Dressmakers	52	1	5	10	12	13	5	3	2	1
Factory Hands	24	5	14	3	2	.....	.....	.....	.....	.....
Forewomen	1	.....	.....	.....	1	.....	.....	.....	.....	.....
Housewives	5,147	39	540	790	711	716	982	890	436	42
Inmates of Institutions	514	2	30	37	43	67	74	125	126	10
Laundry Hands	2	.....	.....	1	.....	1	.....	.....	.....	.....
Milliners	11	2	3	2	2	1	.....	.....	1	.....
Music Teachers	5	.....	1	.....	1	2	1	.....	.....	.....
Nuns and Religious Sisters	21	1	6	2	2	5	.....	3	2	.....
Nurses	36	.....	9	11	8	2	4	1	.....	1
Saleswomen	1	.....	.....	.....	1	.....	.....	.....	.....	.....
School Teachers	41	1	15	12	5	4	2	2	.....	.....
Seamstresses	9	.....	2	2	1	3	1	.....	.....	.....
Stenographers	26	8	12	4	1	.....	1	.....	.....	.....
Students	34	24	10	.....	.....	.....	.....	.....	.....	.....
Tailoresses	14	.....	2	5	3	2	2	.....	.....	.....
Telegraph Operators	1	.....	.....	—1	.....	.....	.....	.....	.....	.....
Telephone Operators	5	1	3	1	.....	.....	.....	.....	.....	.....
Weavers	2	.....	.....	.....	.....	.....	1	.....	1	.....
Other occupations	27	7	6	5	.....	3	2	3	.....	1
No occupations	3,997	199	233	147	171	277	575	1,139	1,193	63

APPENDIX

BIRTHS BY MONTHS, AND SEX (STILL-BIRTHS EXCLUDED)—COUNTIES, 1912.

Counties.	Sex.	Total.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	No date.	No. pairs of twins.	No. cases of triplets.	Illegitimates.
Grand Total	....	58,870	4,644	4,582	5,142	4,868	5,011	5,022	5,233	5,271	5,054	4,839	4,616	4,587	.....	603	7	1,256
Total Males	....	30,180	2,367	2,368	2,687	2,484	2,541	2,586	2,705	2,610	2,561	2,464	2,376	2,431	.....	639	10	656
Total Females	....	28,690	2,277	2,215	2,455	2,384	2,470	2,436	2,528	2,661	2,493	2,375	2,240	2,156	.....	567	11	600
Algoma	M	448	31	28	34	43	35	41	45	29	41	50	35	36	.....	10	.....	9
	F	401	33	30	45	43	28	23	31	37	32	28	39	32	.....	6	.....	6
		849	64	58	79	86	63	64	76	66	73	78	74	68	.....	8	.....	15
Brant	M	556	37	46	40	44	46	48	49	54	49	42	55	46	.....	8	.....	11
	F	604	61	47	40	43	48	58	52	57	58	47	44	49	.....	10	.....	6
		1,160	98	93	80	87	94	106	101	111	107	89	99	95	.....	9	.....	17
Bruce	M	540	61	41	54	45	54	48	32	48	49	33	42	33	.....	15	.....	10
	F	529	37	45	51	42	38	49	39	43	50	36	48	51	.....	13	.....	8
		1,069	98	86	105	87	92	97	71	91	99	69	90	84	.....	14	.....	18
Carleton	M	1,498	120	115	154	131	119	134	154	116	112	113	113	117	.....	31	.....	112
	F	1,495	118	136	121	119	108	146	140	134	126	112	110	125	.....	23	.....	91
		2,993	238	251	275	250	227	280	294	250	238	225	223	242	.....	27	.....	203
Dufferin	M	161	13	14	13	17	18	21	8	12	13	14	4	14	.....	1	.....	2
	F	160	10	13	20	18	9	12	9	15	13	13	13	15	.....	3	.....	1
		321	23	27	33	35	27	33	17	27	26	27	17	29	.....	2	.....	3

Elgin	M	442	30	39	38	35	35	40	43	38	46	36	27	35	.....	8	.....	3
	F	386	33	28	36	24	32	31	28	41	39	32	24	38	.....	2	3	2
		828	63	67	74	59	67	71	71	79	85	68	51	73	.....	5	1	5
Essex	M	852	62	70	69	67	74	83	81	82	70	78	59	57	.....	19	.....	6
	F	727	50	55	55	66	61	48	73	71	72	66	57	53	.....	19	.....	3
		1,579	112	125	124	133	135	131	154	153	142	144	116	110	.....	19	.....	9
Frontenac	M	438	38	37	39	42	33	23	43	37	33	36	27	50	.....	5	2	20
	F	434	33	23	44	31	35	42	28	42	38	39	40	39	.....	5	1	15
		872	71	60	83	73	68	65	71	79	71	75	67	89	.....	5	1	35
Grey	M	684	47	42	52	68	58	68	53	62	64	51	51	68	.....	14	.....	8
	F	585	41	42	61	55	64	54	46	53	46	44	41	38	.....	6	.....	7
		1,269	88	84	113	123	122	122	99	115	110	95	92	106	.....	10	.....	15
Haldimand	M	214	29	13	24	19	15	16	17	16	14	17	13	21	.....	4	.....	.....
	F	211	25	11	20	13	23	23	18	19	13	16	11	19	.....	2	.....	.....
		425	54	24	44	32	38	39	35	35	27	33	24	40	.....	3	.....	.....
Haliburton	M	65	6	5	7	5	6	3	3	9	7	4	3	7	.....	4	.....	1
	F	81	7	8	3	14	7	4	9	7	9	4	3	6	.....	2	.....	2
		146	13	13	10	19	13	7	12	16	16	8	6	13	.....	3	.....	3
Halton	M	204	11	18	10	22	22	13	25	15	22	19	17	10	.....	4	.....	2
	F	216	11	12	20	18	21	16	23	17	16	18	23	21	.....	4	.....	3
		420	22	30	30	40	43	29	48	32	38	37	40	31	.....	4	.....	5
Hastings	M	708	70	73	63	60	54	58	59	60	60	48	56	47	.....	13	2	10
	F	602	46	49	54	59	47	54	51	61	45	43	50	43	.....	13	1	12
		1,310	116	122	117	119	101	112	110	121	105	91	106	90	.....	13	1	22

BIRTHS BY MONTHS, AND SEX (STILL-BIRTHS EXCLUDED)—COUNTIES, 1912.—*Continued.*

Counties.	Sex.	Total.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	No date.	No. pairs of twins.	No. cases of triplets.	Illegitimates.
Huron	M	482	38	41	37	36	43	46	42	36	42	47	35	39	.....	12	.....	5
	F	492	47	33	43	46	33	45	45	48	50	33	32	37	.....	10	.....	4
		974	85	74	80	82	76	91	87	84	92	80	67	76	.....	11	.....	9
Kenora	M	127	7	10	12	9	14	9	14	8	17	7	10	10	.....	2	.....	.....
	F	119	10	9	9	10	11	8	8	12	11	12	9	10	.....	.....	.....	1
		246	17	19	21	19	25	17	22	20	28	19	19	20	.....	1	.....	1
Kent	M	612	51	51	41	53	44	48	55	48	62	50	50	59	.....	15	.....	10
	F	575	56	45	43	40	49	48	50	49	53	46	44	52	.....	5	.....	5
		1,187	107	96	84	93	93	96	105	97	115	96	94	111	.....	10	.....	15
Lambton	M	497	30	40	49	35	33	45	46	49	51	50	34	35	.....	11	.....	5
	F	460	34	39	48	29	34	39	40	40	34	45	40	38	.....	5	.....	4
		957	64	79	97	64	67	84	86	89	85	95	74	73	.....	8	.....	9
Lanark	M	357	36	28	35	22	29	32	28	33	38	32	23	21	.....	12	.....	2
	F	326	17	16	22	31	29	38	28	30	27	28	32	28	.....	2	.....	5
		683	53	44	57	53	58	70	56	63	65	60	55	49	.....	7	.....	7
Leeds and Grenville	M	502	36	36	43	41	44	50	51	44	44	37	30	46	.....	15	.....	5
	F	516	52	45	56	36	46	37	38	36	51	39	47	33	.....	17	3	12
		1,018	88	81	99	77	90	87	89	80	95	76	77	79	.....	16	1	17
Lennox and Addington	M	210	15	15	19	20	22	15	21	20	20	20	17	6	.....	4	.....	3
	F	181	16	10	9	17	20	16	21	18	11	16	14	13	.....	6	.....	3
		391	31	25	28	37	42	31	42	38	31	36	31	19	.....	5	.....	6

Lincoln	M	411	30	30	28	27	39	37	42	43	31	41	28	35	8	7
	F	395	29	23	36	31	38	45	28	35	35	27	28	40	6	7
		806	59	53	64	58	77	82	70	78	66	68	56	75	7	14
Manitoulin	M	101	6	11	8	12	13	7	9	5	8	4	4	14	2	
	F	105	6	11	17	11	13	7	3	6	6	7	11	7	4	3
		206	12	22	25	23	26	14	12	11	14	11	15	21	3	3
Middlesex	M	955	80	97	81	72	76	70	71	91	76	78	80	83	16	34
	F	959	80	69	75	72	85	74	91	72	99	94	80	68	18	41
		1,914	160	166	156	144	161	144	162	163	175	172	160	151	17	75
Muskoka	M	267	17	18	21	21	26	21	28	27	23	21	21	23	2	4
	F	264	22	30	30	18	16	21	25	22	23	15	17	25	10	7
		531	39	48	51	39	42	42	53	49	46	36	38	48	6	11
Nipissing	M	906	72	65	98	74	69	65	76	69	85	70	81	82	21	7
	F	869	68	62	83	72	82	65	75	71	87	73	59	72	17	1
		1,775	140	127	181	146	151	130	151	140	172	143	140	154	19	8
Norfolk	M	249	18	20	26	28	25	21	23	24	16	16	15	17	5	8
	F	268	14	13	20	24	18	22	35	29	21	22	26	24	11	1
		517	32	33	46	52	43	43	58	53	37	38	41	41	8	9
Northumberland and Durham	M	586	39	48	44	50	48	55	58	48	55	47	43	51	10	5
	F	556	36	33	47	50	49	58	55	49	42	46	43	48	8	7
		1,142	75	81	91	100	97	113	113	97	97	93	86	99	9	12
Ontario	M	433	50	24	38	38	49	35	37	43	30	31	31	27	8	9
	F	375	34	28	34	37	40	35	30	39	28	27	21	22	8	5
		808	84	52	72	75	89	70	67	82	58	58	52	49	8	14

BIRTHS BY MONTHS, AND SEX (STILL-BIRTHS EXCLUDED)—COUNTIES, 1912—*Continued.*

Counties.	Sex.	Total.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	No date.	No. pairs of twins.	No. cases of triplets.	Illegitimates.
Oxford	M	497	41	34	39	40	37	48	45	55	37	46	35	40	....	9	.....	3
	F	477	36	32	36	36	38	34	40	52	51	51	33	38	....	7	.....	3
		974	77	66	75	76	75	82	85	107	88	97	68	78	....	8	.....	6
Parry Sound	M	330	30	31	27	20	27	27	37	36	20	31	28	16	....	2	.....	4
	F	345	23	29	26	31	35	26	29	43	30	20	30	23	....	6	.....	3
		675	53	60	53	51	62	53	66	79	50	51	58	39	....	4	.....	7
Peel	M	220	20	21	20	19	12	16	22	12	22	22	13	21	....	.....	.....	5
	F	198	16	18	15	13	22	17	17	19	15	16	19	11	....	2	.....	3
		418	36	39	35	32	34	33	39	31	37	38	32	32	....	1	.....	8
Perth	M	479	36	39	50	30	42	37	39	39	38	50	37	42	....	13	.....	4
	F	484	41	40	40	37	36	36	42	50	28	39	49	46	....	11	.....	2
		963	77	79	90	67	78	73	81	89	66	89	86	88	....	12	.....	6
Peterborough	M	494	43	32	48	37	46	46	34	42	36	41	32	57	....	17	.....	5
	F	483	48	39	45	36	49	43	42	43	39	41	34	24	....	13	.....	4
		977	91	71	93	73	95	89	76	85	75	82	66	81	....	15	.....	9
Prescott and Russell	M	867	63	74	98	87	73	64	69	84	57	64	68	66	....	19	.....	.....
	F	792	69	62	63	87	72	65	64	85	62	60	58	45	....	13	.....	3
		1,659	132	136	161	174	145	129	133	169	119	124	126	111	....	16	.....	3
Prince Edward	M	140	7	11	11	10	10	15	20	14	12	13	12	5	....	4	.....	1
	F	150	9	10	8	15	14	8	19	18	19	8	9	13	....	6	.....	1
		290	16	21	19	25	24	23	39	32	31	21	21	18	....	5	.....	2

Rainy River	M	134	8	13	12	13	11	6	12	17	7	9	15	11	....	2	.....	.....
	F	120	9	3	6	16	9	12	12	10	12	9	11	11	....	4	.....	2
		254	17	16	18	29	20	18	24	27	19	18	26	22	....	3	.....	2
Renfrew	M	608	46	45	57	71	54	56	53	50	54	43	49	30	....	18	.....	8
	F	571	57	58	48	49	41	42	46	53	47	48	40	42	....	12	.....	8
		1,179	103	103	105	120	95	98	99	103	101	91	89	72	....	15	.....	16
Simcoe	M	938	70	86	89	60	81	109	81	73	74	86	73	56	....	21	.....	6
	F	866	63	63	77	90	84	75	61	68	70	83	67	65	....	19	.....	8
		1,804	133	149	166	150	165	184	142	141	144	169	140	121	....	20	.....	14
Stormont, Dundas and Glengarry	M	589	52	35	51	49	53	41	57	56	47	51	47	50	....	11	.....	6
	F	546	53	43	49	40	39	41	48	58	53	52	47	23	....	13	.....	6
		1,135	105	78	100	89	92	82	105	114	100	103	94	73	....	12	.....	12
Sudbury	M	394	24	32	42	34	27	31	35	28	38	26	28	49	....	9	.....	2
	F	385	36	48	39	26	38	27	25	32	25	24	29	36	....	11	.....	2
		779	60	80	81	60	65	58	60	60	63	50	57	85	....	10	.....	4
Thunder Bay	M	693	66	45	54	46	58	67	66	49	69	59	64	50	....	13	.....	6
	F	660	52	45	65	62	64	64	42	53	57	50	59	47	....	13	.....	9
		1,353	118	90	119	108	122	131	108	102	126	109	123	97	....	13	.....	15
Victoria	M	327	21	24	31	26	26	30	40	27	36	24	20	22	....	5	.....	2
	F	321	25	25	25	24	19	33	29	38	28	24	26	25	....	9	.....	2
		648	46	49	56	50	45	63	69	65	64	48	46	47	....	7	.....	4
Waterloo	M	775	63	63	57	65	75	55	62	62	63	71	64	75	....	20	.....	4
	F	740	59	56	53	69	74	68	79	63	65	57	48	49	....	12	.....	6
		1,515	122	119	110	134	149	123	141	125	128	128	112	124	....	16	.....	10

BIRTHS BY MONTHS, AND SEX (STILL-BIRTHS EXCLUDED)—COUNTIES, 1912—*Concluded.*

Counties.	Sex.	Total.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	No date.	No. pairs of twins.	No. cases of triplets.	Illegitimates.
Welland	M	546	32	54	40	39	44	51	38	57	52	41	42	56	.....	1	.....	7
	F	498	33	33	43	45	41	41	43	48	44	50	45	32	.....	13	.....	5
		1,044	65	87	83	84	85	92	81	105	96	91	87	88	.....	7	.....	12
Wellington	M	552	49	47	48	40	64	42	54	42	34	44	46	42	.....	8	.....	6
	F	533	46	40	40	47	36	41	61	42	54	55	36	35	.....	10	.....	3
		1,085	95	87	88	87	100	83	115	84	88	99	82	77	.....	9	.....	9
Wentworth	M	1,627	138	125	151	123	136	135	153	121	129	134	151	131	.....	34	.....	38
	F	1,522	112	113	121	114	131	119	160	134	142	137	122	117	.....	18	.....	34
		3,149	250	238	272	237	267	254	313	255	271	271	273	248	.....	26	.....	72
York	M	6,465	478	482	585	539	522	558	575	580	558	517	548	523	.....	154	6	251
	F	6,108	464	493	514	478	544	526	550	599	517	523	472	428	.....	140	3	234
		12,573	942	975	1,099	1,017	1,066	1,084	1,125	1,179	1,075	1,040	1,020	951	.....	147	3	485

BIRTHS BY MONTHS, AND SEX (STILL-BIRTHS EXCLUDED)—CITIES, 1912.

Cities.	Sex.	Total.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	No date.	No. pairs of twins.	No. cases of triplets.	Illegitimates.
Grand Total	....	22,929	1,810	1,796	1,977	1,817	1,911	2,000	2,062	2,022	1,952	1,904	1,868	1,810	....	225	3	897
Total Males	....	11,709	924	909	1,046	945	935	1,011	1,053	999	962	961	998	966	....	243	4	468
Total Females	....	11,220	886	887	931	872	976	989	1,009	1,023	990	943	870	844	....	207	5	429
Belleville	M	121	9	13	13	4	11	15	7	11	5	10	12	11	....	2	.....	1
	F	120	9	11	14	15	10	15	7	11	5	6	13	4	....	4	.....	4
		241	18	24	27	19	21	30	14	22	10	16	25	15	....	3	.....	5
Berlin	M	217	15	13	16	19	16	15	22	19	17	26	20	19	....	4	.....	1
	F	225	29	20	14	21	17	25	24	15	21	7	12	20	....	.....	.....	4
		442	44	33	30	40	33	40	46	34	38	33	32	39	....	2	.....	5
Brantford	M	350	25	32	22	27	25	28	29	34	32	30	33	33	....	8	.....	6
	F	391	39	30	23	26	28	40	36	42	36	33	27	31	....	8	.....	3
		741	64	62	45	53	53	68	65	76	68	63	60	64	....	8	.....	9
Chatham	M	116	6	14	9	6	7	10	11	6	14	12	7	14	....	4	.....	5
	F	95	13	4	7	4	11	8	7	7	8	7	8	11	....	.....	.....	2
		211	19	18	16	10	18	18	18	13	22	19	15	25	....	2	.....	7
Fort William	M	387	39	22	27	19	34	41	33	26	41	36	36	33	....	8	.....	3
	F	375	31	27	29	26	38	39	24	30	41	28	36	26	....	6	.....	5
		762	70	49	56	45	72	80	57	56	82	64	72	59	....	7	.....	8

BIRTHS BY MONTHS, AND SEX (STILL-BIRTHS EXCLUDED)—CITIES, 1912—*Continued.*

Cities.	Sex.	Total.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.	No date.	No. pairs of twins.	No. cases of triplets.	Illegitimate.
Guelph	M	204	20	19	16	14	20	13	16	11	20	18	17	20	....	5	.....	2
	F	172	18	8	12	19	12	11	16	14	16	21	12	13	....	7	.....	.....
		376	38	27	28	33	32	24	32	25	36	39	29	33	....	6	.....	2
Hamilton	M	1,305	119	104	124	96	100	103	125	93	106	108	123	104	....	23	.....	37
	F	1,212	88	86	99	92	107	91	125	102	123	112	102	85	....	9	.....	28
		2,517	207	190	223	188	207	194	250	195	229	220	225	189	....	16	.....	65
Kingston	M	213	17	14	23	18	17	8	23	19	17	19	15	23	....	.....	.....	13
	F	214	18	10	22	12	17	20	17	15	24	24	14	21	....	2	.....	12
		427	35	24	45	30	34	28	40	34	41	43	29	44	....	1	.....	25
London	M	558	43	60	41	47	40	48	41	53	42	40	55	48	....	9	.....	30
	F	533	43	41	42	35	46	40	60	35	54	47	45	45	....	11	.....	39
		1,091	86	101	83	82	86	88	101	88	96	87	100	93	....	10	.....	69
Niagara Falls	M	131	10	9	11	10	9	14	10	20	8	8	13	9	....	.....	.....	2
	F	129	11	9	9	5	10	17	12	11	11	16	11	7	....	6	.....	2
		260	21	18	20	15	19	31	22	31	19	24	24	16	....	3	.....	4
Ottawa	M	1,173	106	89	116	105	95	107	111	84	84	89	95	92	....	24	.....	110
	F	1,173	82	106	97	96	87	103	109	97	101	95	91	109	....	10	.....	92
		2,346	188	195	213	201	182	210	220	181	185	184	186	201	....	17	.....	202
Peterborough	M	228	20	19	23	15	16	22	16	17	16	20	16	28	....	6	.....	2
	F	234	20	17	23	17	31	25	21	21	20	14	12	13	....	4	.....	3
		462	40	36	46	32	47	47	37	38	36	34	28	41	....	5	.....	5

Port Arthur	M	246	21	21	17	24	20	21	27	19	22	18	22	14	....	3	.....	3
	F	235	17	14	29	29	23	19	16	20	14	19	19	16	....	7	.....	4
		481	38	35	46	53	43	40	43	39	36	37	41	30	....	5	.....	7
St. Catharines	M	173	13	11	12	6	14	22	21	20	9	21	8	16	....	4	.....	3
	F	168	12	12	16	14	13	23	7	18	14	15	12	12	....	.....	.....	3
		341	25	23	28	20	27	45	28	38	23	36	20	28	....	2	.....	6
Stratford	M	142	9	14	15	10	11	12	15	8	7	11	13	17	....	3	.....	.....
	F	144	8	16	12	14	10	12	5	14	10	12	14	17	....	1	.....	1
		286	17	30	27	24	21	24	20	22	17	23	27	34	....	2	.....	1
St. Thomas	M	169	10	17	14	14	16	11	20	13	23	13	9	9	....	5	.....	1
	F	140	11	11	12	5	7	11	13	19	18	8	8	17	....	1	3	1
		309	21	28	26	19	23	22	33	32	41	21	17	26	....	3	1	2
Toronto	M	5,616	411	412	514	476	451	486	493	513	480	447	482	451	....	129	4	243
	F	5,344	409	441	448	417	484	464	476	521	443	453	408	380	....	125	2	223
		10,960	820	853	962	893	935	950	969	1,034	923	900	890	831	....	127	2	466
Windsor	M	249	21	16	24	31	21	27	22	21	12	28	13	13	....	6	.....	3
	F	215	18	17	12	21	17	18	25	24	16	16	21	10	....	4	.....	1
		464	39	33	36	52	38	45	47	45	28	44	34	23	....	5	.....	4
Woodstock	M	111	10	10	9	4	12	8	11	12	7	7	9	12	....	.....	.....	3
	F	101	10	7	11	4	8	8	9	7	15	10	5	7	....	2	.....	2
		212	20	17	20	8	20	16	20	19	22	17	14	19	....	1	.....	5

BIRTHS BY MONTHS AND SEX (STILL-BIRTHS EXCLUDED)—TOWNS, 1912.

Towns.	Sex.	Total.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	No date.	No. Pairs of Twins.	No. Cases of Triplets.	Illegitimate.
Grand Total	....	3,913	318	276	346	333	351	342	370	314	338	320	304	301	.....	32	1	57
Total Males	....	2,075	175	144	180	168	182	180	202	143	204	167	160	170	.....	34	2	29
Total Females	....	1,838	143	132	166	165	169	162	168	171	134	153	144	131	.....	30	1	28
Barrie	M	76	2	7	10	1	8	5	4	6	10	9	8	6	.....	2	.....	2
	F	81	4	5	6	8	10	7	7	8	7	4	6	9	.....	.....	.....	.....
		157	6	12	16	9	18	12	11	14	17	13	14	15	.....	1	.....	2
Brockville	M	115	9	4	14	7	11	14	12	8	14	4	7	11	.....	3	.....	4
	F	116	13	12	11	11	12	10	9	2	10	9	10	7	.....	3	.....	5
		231	22	16	25	18	23	24	21	10	24	13	17	18	.....	3	.....	9
Cobalt	M	136	17	10	11	7	13	4	12	12	11	18	9	12	.....	5	.....	2
	F	111	12	7	7	10	12	9	10	11	5	11	8	9	.....	3	.....	2
		247	29	17	18	17	25	13	22	23	16	29	17	21	.....	4	.....	4
Cobourg	M	56	5	5	5	3	7	4	6	.....	7	4	5	5	.....	.....	.....	1
	F	53	7	4	5	5	4	5	6	5	.....	2	3	7	.....	.....	.....	3
		109	12	9	10	8	11	9	12	5	7	6	8	12	.....	.....	.....	4
Collingwood	M	98	4	4	6	9	7	14	11	4	10	7	15	7	.....	2	.....	1
	F	84	9	6	9	11	5	7	5	9	6	5	7	5	.....	2	.....	3
		182	13	10	15	20	12	21	16	13	16	12	22	12	.....	2	.....	4
Cornwall	M	90	8	8	8	10	8	2	8	6	5	6	9	12	.....	3	.....	2
	F	63	10	3	5	1	7	7	9	5	5	1	9	1	.....	1	.....	2
		153	18	11	13	11	15	9	17	11	10	7	18	13	.....	2	.....	4

Galt	M	134	13	13	10	16	14	10	7	7	12	10	10	12	.....	2	.....	2
	F	117	7	4	12	16	12	5	19	10	8	11	10	3	.....	4	.....	.....
		251	20	17	22	32	26	15	26	17	20	21	20	15	.....	3	.....	2
Kenora	M	67	5	6	7	2	9	6	7	3	8	6	5	3	.....	.....	.....	.....
	F	56	5	5	6	5	3	4	2	9	4	4	4	5	.....	.....	.....	1
		123	10	11	13	7	12	10	9	12	12	10	9	8	.....	.....	.....	1
Lindsay	M	79	6	3	8	7	10	5	10	8	7	5	4	6	.....	.....	.....	.....
	F	79	7	9	8	5	9	5	8	9	6	4	4	5	.....	4	.....	.....
		158	13	12	16	12	19	10	18	17	13	9	8	11	.....	2	.....	.....
North Bay	M	142	10	14	13	12	11	10	14	9	15	7	10	17	.....	2	.....	.....
	F	140	10	10	11	11	12	15	14	9	12	14	6	16	.....	2	.....	1
		282	20	24	24	23	23	25	28	18	27	21	16	33	.....	2	.....	1
North Toronto	M	103	6	9	11	8	8	15	10	3	10	12	8	3	.....	1	2	.....
	F	79	6	7	6	4	7	3	7	9	3	18	6	3	.....	3	1	.....
		182	12	16	17	12	15	18	17	12	13	30	14	6	.....	2	1	.....
Orillia	M	84	9	9	11	10	4	11	10	3	3	5	4	5	.....	.....	.....	.....
	F	79	4	4	11	5	9	13	7	2	2	11	10	1	.....	.....	.....	1
		163	13	13	22	15	13	24	17	5	5	16	14	6	.....	.....	.....	1
Oshawa	M	117	19	8	12	12	14	11	10	9	7	5	4	6	.....	.....	.....	1
	F	99	5	9	5	13	11	8	7	11	6	10	7	7	.....	.....	.....	2
		216	24	17	17	25	25	19	17	20	13	15	11	13	.....	.....	.....	3
Owen Sound	M	179	12	10	10	17	11	18	19	17	17	14	14	20	.....	2	.....	5
	F	156	11	11	21	16	16	11	12	21	16	10	7	4	.....	2	.....	5
		335	23	21	31	33	27	29	31	38	33	24	21	24	.....	2	.....	10

BIRTHS BY MONTHS AND SEX (STILL-BIRTHS EXCLUDED)—TOWNS, 1912.—*Concluded.*

Towns.	Sex.	Total.	January.	February	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	No date.	No. Pairs of Twins.	No. Cases of Triplets.	Illegitimate.
Pembroke	M	73	2	3	10	9	6	7	7	7	6	10	4	2	.....	2	.....	.....
	F	73	9	7	7	6	4	4	8	6	4	6	6	6	.....	.....	.....	.....
		146	11	10	17	15	10	11	15	13	10	16	10	8	.....	1	.....	.....
Port Hope	M	56	6	5	3	2	7	5	6	6	9	3	3	1	.....	2	.....	.....
	F	54	5	3	6	2	3	8	2	6	7	5	3	4	.....	.....	.....	2
		110	11	8	9	4	10	13	8	12	16	8	6	5	.....	1	.....	2
Sarnia	M	120	7	5	9	9	8	14	13	11	13	13	9	9	.....	3	.....	1
	F	108	5	10	10	4	13	11	8	11	9	7	11	9	.....	1	.....	1
		228	12	15	19	13	21	25	21	22	22	20	20	18	.....	2	.....	2
Sault St. Marie	M	140	11	9	7	16	11	12	14	8	14	13	12	13	.....	3	.....	6
	F	111	8	6	7	11	8	9	10	12	7	8	12	13	.....	3	.....	.....
		251	19	15	14	27	19	21	24	20	21	21	24	26	.....	3	.....	6
Smith's Falls	M	98	17	5	8	5	6	5	7	6	14	9	9	7	.....	2	.....	1
	F	87	3	3	6	11	4	14	10	8	7	8	5	8	.....	.....	.....	.....
		185	20	8	14	16	10	19	17	14	21	17	14	15	.....	1	.....	1
Welland	M	112	7	7	7	6	9	8	15	10	12	7	11	13	.....	.....	.....	1
	F	92	3	7	7	10	8	7	8	8	10	5	10	9	.....	2	.....	.....
		204	10	14	14	16	17	15	23	18	22	12	21	22	.....	1	.....	1

MARRIAGES BY MONTHS—COUNTIES, 1912.

Counties.	Total.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Grand Total	28,845	1,903	1,778	1,623	2,318	1,749	3,767	2,235	2,392	3,019	2,705	2,380	2,976
Algoma	403	25	39	23	28	31	44	42	41	35	25	27	43
Brant	467	33	32	19	45	36	52	30	40	46	51	34	49
Bruce	344	26	32	19	26	18	47	28	18	32	32	27	39
Carleton	1,221	69	67	30	112	91	185	91	98	125	160	122	71
Dufferin	130	9	17	11	8	10	19	3	6	12	9	9	17
Elgin	368	20	25	14	21	25	54	22	17	42	35	43	50
Essex	4,149	220	251	270	301	253	471	402	428	448	361	373	371
Frontenac	427	20	32	17	31	25	61	31	43	45	39	31	52
Grey	496	47	30	46	30	22	69	36	34	39	48	25	70
Haldimand	146	7	5	9	15	9	27	3	9	25	15	12	10
Haliburton	22	1	1	2	2	4	1	2	1	.....	1	2	5
Halton	160	9	12	7	8	17	33	8	14	20	13	10	9
Hastings	470	35	19	34	45	28	60	31	29	42	30	38	79
Huron	348	28	23	26	28	14	54	23	19	42	30	24	37
Kenora	54	3	5	3	1	8	4	4	3	5	6	7	5
Kent	475	40	41	29	39	24	43	38	41	38	46	48	48
Lambton	518	34	24	40	40	31	70	29	50	45	57	32	66
Lanark	245	19	14	24	23	13	35	14	16	31	22	14	20
Leeds and Grenville	498	54	31	27	38	24	46	38	37	65	47	35	56
Lennox and Addington	154	11	16	12	10	4	14	5	8	22	14	11	27

MARRIAGES BY MONTHS—COUNTIES, 1912.—Continued.

Counties.	Total.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Lincoln	348	25	27	14	24	24	51	27	26	31	44	17	38
Manitoulin	56	1	1	3	4	3	7	6	4	6	6	6	9
Middlesex	928	67	52	43	75	58	125	63	73	102	75	73	122
Muskoka	160	8	5	5	18	8	18	5	12	24	20	8	29
Nipissing	473	20	17	21	44	37	73	41	42	46	48	48	34
Norfolk	193	21	13	18	10	12	19	12	11	19	8	9	41
Northumberland and Durham	390	33	22	32	29	17	62	24	21	36	28	34	52
Ontario	277	27	19	13	18	15	40	20	17	32	25	16	35
Oxford	382	35	25	26	34	21	53	23	26	35	27	36	41
Parry Sound	167	7	6	7	15	8	25	10	15	15	15	20	24
Peel	142	14	15	12	15	8	18	5	9	15	10	10	11
Perth	403	43	34	28	37	24	52	19	21	35	36	31	43
Peterborough	377	33	23	23	31	18	52	30	28	33	35	35	36
Prescott and Russell	336	33	31	12	36	22	46	36	25	39	33	15	8
Prince Edward	116	11	3	4	7	6	15	3	11	16	8	11	21
Rainy River	96	4	4	4	9	4	10	6	10	15	8	10	12
Renfrew	360	23	17	11	35	20	47	34	26	51	30	44	22
Simcoe	647	53	40	60	71	33	86	33	37	66	53	53	62
Stormont, Dundas and Glengarry	366	28	28	21	21	22	56	30	20	55	29	23	33

Sudbury	183	13	11	7	25	12	20	16	15	16	12	16	20
Thunder Bay	461	30	28	13	44	27	43	48	34	44	51	48	51
Victoria	213	20	10	13	20	8	18	11	16	27	24	17	29
Waterloo	576	57	39	19	39	30	82	46	46	67	50	41	60
Welland	1,840	111	112	107	122	116	182	192	203	182	171	176	166
Wellington	378	35	27	19	38	20	67	25	22	26	30	31	38
Wentworth	1,464	78	94	77	123	86	188	129	117	143	157	107	165
York	6,418	363	359	349	523	401	923	461	553	684	631	521	650

MARRIAGES BY MONTHS—CITIES, 1912.

Cities.	Total.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Grand Total	15,917	895	964	830	1,267	1,017	2,052	1,340	1,424	1,658	1,597	1,348	1,525
Belleville	124	4	3	8	12	11	22	9	1	17	8	12	17
Berlin	190	19	13	6	14	5	25	14	20	27	18	15	14
Brantford	302	22	19	13	27	27	39	19	26	31	40	20	19
Chatham	191	13	11	8	15	12	19	25	20	12	21	17	18
Fort William	205	15	13	6	18	13	15	28	22	18	14	23	20
Guelph	127	8	8	2	10	12	22	12	7	7	12	13	14
Hamilton	1,306	70	87	63	109	78	165	119	109	124	140	97	145
Kingston	310	14	20	15	28	16	50	25	36	24	32	22	33
London	676	44	37	23	58	43	96	46	60	76	60	52	81
Niagara Falls	839	42	60	57	54	52	78	95	88	83	80	68	82
Ottawa	1,089	61	62	28	106	85	149	83	86	106	148	111	64
Peterborough	251	17	19	13	19	12	39	26	18	19	24	25	20
Port Arthur	234	11	14	6	22	12	29	16	13	24	34	23	30
St. Catharines	197	12	16	8	15	14	28	12	10	20	25	13	24
St. Thomas	190	10	15	8	14	17	28	11	11	21	18	21	16
Stratford	138	12	7	5	9	8	17	10	9	16	16	18	11
Toronto	6,007	331	333	320	481	383	857	440	519	640	600	488	615
Windsor	3,429	182	223	238	247	214	362	340	358	381	296	297	291
Woodstock	112	8	4	3	14	3	12	10	11	12	11	13	11

MARRIAGES BY MONTHS—TOWNS, 1912.

Towns.	Total.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Grand Total	2,018	129	108	115	184	124	238	148	184	220	181	172	215
Barrie	85	6	4	7	13	4	6	5	7	11	5	9	8
Brockville	136	7	8	8	16	5	14	11	12	19	12	11	13
Cobalt	63	2	2	6	3	6	5	3	9	9	6	9	3
Cobourg	51	5	1	4	5	2	5	3	4	7	6	4	5
Collingwood	58	6	1	4	9	1	7	2	3	4	5	5	11
Cornwall	61	2	3	.....	6	5	6	5	7	8	4	5	10
Galt	112	8	5	3	10	8	20	8	11	14	8	4	13
Kenora	42	2	5	3	2	7	.....	3	3	4	5	4	4
Lindsay	111	8	3	7	13	5	9	6	6	11	17	12	14
North Bay	118	3	2	6	11	11	18	9	7	16	13	15	7
North Toronto	33	.....	3	.....	4	.....	8	3	5	5	1	2	2
Orillia	90	8	5	6	11	6	9	8	4	12	7	6	8
Oshawa	83	3	4	1	6	6	13	8	8	9	12	3	10
Owen Sound	155	14	5	8	10	5	20	15	15	10	14	10	29
Pembroke	59	6	7	3	2	4	7	9	1	8	.....	11	1
Port Hope	33	1	2	5	3	1	9	2	.....	.....	2	4	4
Sarnia	297	18	14	19	29	19	42	17	35	26	33	19	26
Sault Ste. Marie	223	11	22	15	15	16	19	22	24	18	18	20	23
Smith's Falls	64	5	2	4	5	2	9	2	7	12	5	3	8
Welland	144	14	10	6	11	11	12	7	16	17	8	16	16

Marriages by Denominations in the Province of Ontario, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	3,592	778	800	229	231	46	77	7	10	8	91	9	5,878
Presbyterian	693	3,240	903	129	235	47	99	7	3	3	105	1	5,465
Methodist	777	959	4,856	211	377	67	149	24	8	10	178	7	7,623
Roman Catholic	263	218	249	3,430	86	25	85	12	9	1	119	29	4,526
Baptist	229	226	414	66	819	33	49	5	1	3	59	2	1,906
Congregational	49	33	62	14	21	137	11	2	.....	1	17	2	349
Lutheran	81	87	138	88	57	7	641	11	6	1	47	3	1,167
Evangelical Association	7	12	36	4	4	2	14	86	11	.....	11	2	189
Hebrew	2	.....	2	6	1	.....	1	.....	314	.....	3	.....	329
Salvation Army	12	8	10	.....	2	1	1	.....	1	86	11	.....	132
Others	64	112	162	65	48	8	50	7	5	12	621	13	1,167
No Denomination	6	7	10	8	7	1	3	.....	.....	.....	5	67	114
Total Grooms	5,775	5,680	7,642	4,250	1,888	374	1,180	161	368	125	1,267	135	28,845

Licenses, 26,826. Banns, 2,019.

Marriages by Ages in the Province of Ontario, 1912.

Brides. / Grooms. Age.	15	20	25	30	35	40	45	50	55	60	65	70	Not stated	Total
15	417	3,729	1,268	241	79	19	7	5	.....	1	.....	1	1	5,768
20	118	5,667	4,023	1,200	347	104	33	13	7	3	1	1	.....	11,517
25	9	918	3,037	1,458	578	170	72	21	4	2	2	2	.....	6,273
30	2	106	545	934	468	238	117	61	11	10	2	2	.....	2,496
35	.....	23	107	215	381	211	141	78	30	15	5	5	.....	1,211
40	.....	7	12	33	109	188	137	91	58	30	6	4	.....	675
45	.....	.....	4	12	27	52	88	87	65	33	14	4	.....	386
50	.....	.....	3	1	4	14	22	53	44	34	11	14	.....	200
55	.....	.....	.....	.....	1	.....	8	17	32	34	16	7	.....	115
60	.....	.....	.....	.....	.....	.....	2	4	6	23	15	17	.....	67
65	.....	.....	.....	1	.....	.....	.....	2	2	5	9	12	.....	31
70	.....	.....	1	.....	.....	.....	1	1	.....	1	1	8	.....	13
Age not stated.	.....	23	25	13	7	2	3	3	5	.....	1	4	7	93
Totals	546	10,473	9,025	4,108	2,001	998	631	436	264	191	83	81	8	28,845

Marriages by Denominations in the District of Algoma, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	39	10	15	4	2	.....	1	.....	1	.....	.....	.....	62
Presbyterian	12	43	7	4	4	.....	1	.....	.....	.....	.....	.....	71
Methodist	8	8	54	2	3	.....	.....	.....	.....	.....	.....	.....	75
Roman Catholic	5	4	5	128	2	.....	.....	.....	.....	1	1	1	147
Baptist	1	2	3	1	1	.....	.....	.....	.....	.....	.....	.....	8
Congregational	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Lutheran	.....	1	1	.....	1	.....	22	.....	.....	.....	.....	.....	25
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	2
Salvation Army	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Others	.....	1	1	1	.....	.....	.....	.....	.....	.....	6	.....	9
No Denomination	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2
Total Grooms	66	70	76	140	13	1	24	.....	3	1	7	2	403

Licenses, 336. Banns, 67.

Marriages by Ages in the District of Algoma, 1912.

Brides. \ Grooms. Age.	15	20	25	30	35	40	45	50	55	60	65	70	Not stat'd	Total.
15	5	64	35	11	2	1	.....	.....	.....	.....	.....	.....	.....	118
20	3	75	51	22	4	1	.....	.....	.....	.....	.....	.....	.....	156
25	.....	4	37	19	6	1	.....	.....	.....	.....	.....	.....	.....	67
30	.....	1	5	14	6	2	1	.....	1	1	.....	.....	.....	31
35	.....	1	1	3	4	1	1	2	1	.....	.....	.....	.....	14
40	.....	.....	.....	1	2	4	1	1	.....	.....	.....	.....	.....	9
45	.....	.....	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	3
50	.....	.....	.....	.....	.....	.....	.....	3	1	.....	.....	.....	.....	4
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	8	145	129	70	25	10	3	7	4	2	.....	.....	.....	403

Marriages by Denominations in County of Brant, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglicans	94	11	14	3	9	2	.....	.....	.....	.....	3	.....	136
Presbyterian	9	33	6	3	8	1	.....	.....	.....	.....	.....	.....	60
Methodist	11	10	75	.....	8	1	1	.....	.....	.....	1	.....	107
Roman Catholic	2	1	2	34	1	.....	1	.....	.....	.....	.....	.....	41
Baptist	7	5	20	1	40	4	.....	.....	.....	.....	1	.....	78
Congregational	2	2	2	.....	1	4	.....	.....	.....	.....	.....	.....	11
Lutheran	1	.....	1	.....	.....	.....	5	.....	.....	.....	.....	.....	7
Evangelical Association	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Salvation Army	.....	.....	1	.....	.....	.....	.....	.....	.....	3	1	.....	5
Others	1	.....	3	.....	2	.....	.....	.....	.....	.....	14	.....	20
No denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	127	62	124	41	70	12	7	.....	1	3	20	.....	467

Licenses, 439. Banns, 28.

Marriages by Ages in County of Brant, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70	not stated	Total
15	13	56	22	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	92
20	1	95	54	18	8	1	.....	.....	.....	.....	.....	.....	.....	177
25	.....	19	54	26	6	1	1	.....	.....	.....	.....	.....	.....	107
30	.....	1	6	9	9	5	1	.....	1	.....	.....	.....	.....	32
35	.....	1	1	2	5	7	2	4	1	1	.....	1	.....	25
40	.....	.....	.....	2	1	1	.....	2	.....	1	.....	.....	.....	7
45	.....	.....	.....	2	.....	.....	1	2	2	2	.....	.....	.....	9
50	.....	.....	.....	.....	.....	1	.....	1	2	1	1	.....	.....	9
55	.....	.....	.....	.....	.....	.....	.....	1	1	1	1	.....	.....	4
60	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	2	.....	.....	3
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Totals	14	173	137	60	29	19	5	11	7	6	5	1	.....	467

BRIDES.

Marriages by Denominations in the County of Bruce, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist	Roman Catholic.	Baptist.	Congregational	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	19	3	8	.....	.....	.....	2	.....	.....	.....	.....	.....	32
Presbyterian	13	75	13	1	6	1	1	.....	.....	.....	2	.....	111
Methodist	7	19	52	.....	1	.....	1	.....	.....	.....	2	.....	82
Roman Catholic	.....	.....	.....	54	.....	.....	.....	.....	.....	.....	.....	.....	54
Baptist	3	5	7	.....	8	.....	1	.....	.....	.....	1	.....	25
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	1	1	.....	.....	.....	.....	12	.....	.....	.....	.....	.....	14
Evangelical Association	1	.....	.....	.....	1	.....	.....	10	.....	.....	.....	.....	12
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	4	2	1	.....	.....	.....	.....	.....	.....	6	.....	13
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Total Grooms	44	107	81	56	16	1	17	10	.....	.....	11	1	344

Licenses, 306. Banns, 38.

Marriages by Ages in the County of Bruce, 1912.

GROOMS.

Brides' Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	.....	24	25	3	3	1	.....	.....	.....	.....	.....	.....	.....	56
20	1	53	63	16	9	2	.....	1	.....	.....	.....	.....	.....	145
25	.....	4	36	25	5	1	1	.....	.....	.....	.....	.....	.....	72
30	.....	1	2	11	12	4	1	.....	.....	.....	.....	.....	.....	31
35	.....	.....	.....	1	8	5	.....	4	.....	.....	.....	.....	.....	18
40	.....	.....	.....	.....	1	.....	5	2	1	.....	.....	.....	.....	9
45	.....	.....	.....	.....	.....	5	3	2	.....	.....	.....	.....	.....	10
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	2
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.	1	82	127	56	38	18	10	9	1	.....	1	1	.....	344

Marriages by Denominations in the County of Carleton, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	144	47	24	14	4	3	4	.....	.....	1	4	.....	245
Presbyterian	32	123	24	8	7	1	2	.....	.....	.....	3	.....	200
Methodist	21	22	82	3	7	.....	1	.....	.....	1	2	.....	139
Roman Catholic	33	17	6	454	4	1	4	.....	.....	.....	9	.....	528
Baptist	7	4	7	.....	11	.....	.....	.....	.....	.....	1	.....	30
Congregational	1	1	1	.....	1	8	.....	.....	.....	.....	.....	.....	12
Lutheran	2	1	5	1	.....	.....	14	.....	.....	.....	1	.....	24
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	10	.....	.....	.....	10
Salvation Army	.....	.....	1	.....	.....	.....	.....	.....	1	6	.....	.....	8
Others	2	3	1	2	.....	.....	.....	.....	1	.....	16	.....	25
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	242	218	151	482	34	13	25	.....	12	8	36	.....	1,221

Licenses, 1,045. Banns, 176.

Marriages by Ages in the County of Carleton, 1912.

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	10	120	49	7	4	.....	.....	.....	.....	.....	.....	.....	.....	190
20	7	262	177	55	13	7	.....	.....	.....	.....	.....	.....	.....	521
25	.....	39	140	81	28	11	3	2	.....	.....	.....	.....	.....	304
30	2	2	22	32	15	11	5	6	1	1	.....	.....	.....	97
35	.....	2	4	4	15	6	9	4	.....	1	.....	.....	.....	45
40	.....	.....	.....	1	6	7	5	5	3	1	2	.....	.....	30
45	.....	.....	.....	1	1	1	4	1	3	1	.....	.....	.....	12
50	.....	.....	.....	.....	.....	.....	.....	1	1	1	.....	1	.....	4
55	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	2	1	.....	6
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Age not stated.	.....	2	3	2	1	.....	.....	.....	1	.....	.....	1	.....	10
Totals.	19	427	395	183	83	43	26	19	12	5	4	5	.....	1,221

Marriages by Denominations in the County of Dufferin, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	11	6	5	.....	1	.....	.....	.....	.....	.....	.....	.....	25
Presbyterian	4	23	10	.....	1	1	1	.....	.....	.....	1	.....	41
Methodists	5	16	33	1	.....	.....	.....	.....	.....	1	.....	.....	56
Roman Catholic	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	3
Baptist	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Congregational	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	2
Lutheran	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2	.....	3
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	20	45	51	4	2	2	2	.....	.....	1	3	.....	130

Licenses, 126. Banns, 4.

Marriage by Ages in the County of Dufferin, 1912.

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70	not stated	Total
15	.....	12	5	1	1	.....	.....	.....	.....	.....	.....	.....	.....	19
20	2	14	20	11	5	1	.....	.....	.....	.....	.....	.....	.....	53
25	.....	6	16	5	6	2	.....	.....	.....	.....	.....	.....	.....	35
30	.....	.....	5	4	2	3	.....	.....	.....	.....	.....	.....	.....	14
35	.....	.....	.....	1	1	.....	1	.....	.....	.....	.....	.....	.....	3
40	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	2
45	.....	.....	.....	1	.....	1	1	1	.....	.....	.....	.....	.....	4
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	2	32	46	23	15	8	2	2	.....	.....	.....	.....	.....	130

Marriages by Denominations in the County of Elgin, 1912.

Grooms / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholics.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	31	3	12	.....	8	.....	.....	.....	.....	.....	1	.....	55
Presbyterian	10	42	7	.....	6	.....	.....	2	.....	.....	1	.....	68
Methodist	7	22	89	2	14	1	3	.....	.....	.....	3	.....	141
Roman Catholic	2	.....	1	7	.....	.....	.....	.....	.....	.....	1	.....	11
Baptist	9	7	16	2	33	.....	1	.....	.....	.....	2	.....	70
Congregational	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Lutheran	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Evangelical Association	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	2
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Others	1	4	2	1	4	.....	.....	.....	.....	1	4	.....	17
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	60	79	128	12	65	2	4	2	2	2	12	.....	368

Licenses, 368. Banns, ...

Marriages by Ages in the County of Elgin, 1912.

GROOMS.

Brides / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	3	54	20	2	2	.....	.....	.....	.....	.....	.....	.....	.....	81
20	.....	71	60	9	5	3	.....	.....	.....	.....	.....	.....	.....	148
25	.....	14	24	18	8	2	.....	.....	1	.....	1	.....	.....	68
30	.....	1	7	11	8	4	2	1	.....	.....	.....	.....	.....	34
35	.....	2	2	2	5	2	2	.....	1	.....	.....	.....	.....	16
40	.....	1	.....	.....	1	3	3	1	.....	.....	.....	.....	.....	9
45	.....	.....	.....	.....	.....	.....	2	1	.....	1	1	.....	.....	5
50	.....	.....	1	.....	.....	1	.....	1	1	.....	.....	.....	.....	4
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	2
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	3	143	114	42	29	15	9	4	3	1	3	2	.....	368

BRIDES.

Marriages by Denominations in the County of Essex, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	158	64	43	49	21	12	23	1	4	.....	21	2	428
Presbyterian	33	190	82	24	27	7	28	3	1	1	37	.....	433
Methodist	77	94	717	83	87	26	75	9	6	3	91	.....	1,268
Roman Catholic	53	53	102	343	38	15	46	7	6	.....	47	1	711
Baptist	26	28	86	32	158	13	22	1	1	.....	26	1	394
Congregational	11	6	16	7	9	28	8	2	.....	.....	10	2	99
Lutheran	15	36	65	44	27	6	131	4	4	.....	21	3	356
Evangelical Association	.....	2	11	3	1	2	3	15	.....	.....	6	.....	43
Hebrew	1	.....	1	2	1	.....	.....	.....	32	.....	1	.....	38
Salvation Army	1	.....	1	.....	.....	.....	.....	.....	.....	1	3	.....	6
Others	13	29	58	25	16	1	34	5	4	.....	168	4	357
No Denomination	4	.....	4	.....	3	1	2	.....	.....	.....	2	.....	16
Total Grooms	392	502	1,216	612	388	111	372	47	58	5	433	13	4,149

Licenses, 4,069. Banns, 80.

Marriages by Ages in the County of Essex, 1912.

Brides. / Grooms. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	105	809	160	29	10	4	2	1	.....	.....	.....	.....	.....	1,120
20	23	834	403	125	45	10	7	3	.....	.....	.....	.....	.....	1,450
25	2	110	295	161	85	25	15	6	.....	.....	.....	1	.....	700
30	.....	14	78	144	74	50	15	13	3	2	.....	.....	.....	393
35	.....	3	25	35	81	34	20	13	6	.....	.....	1	.....	218
40	.....	2	4	5	20	35	24	18	9	6	2	2	.....	127
45	.....	.....	1	1	4	16	17	12	10	4	3	.....	.....	68
50	.....	.....	1	1	1	2	8	8	4	6	5	2	.....	38
55	.....	.....	.....	.....	1	.....	3	3	2	7	.....	1	.....	17
60	.....	.....	.....	.....	.....	.....	1	1	2	3	1	4	.....	12
65	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	1	.....	3
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Age not stated.	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Totals.	130	1,772	968	502	321	176	112	79	36	28	12	13	.....	4,149

Marriages by Denominations in the County of Frontenac, 1912.

Brides. / Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	79	14	17	7	5	.....	.....	.....	.....	.....	.....	.....	122
Presbyterian	4	30	13	.....	.....	1	1	.....	.....	.....	3	.....	52
Methodist	14	18	115	5	6	1	2	.....	.....	.....	1	.....	162
Roman Catholic	5	3	5	42	1	1	.....	.....	.....	.....	4	.....	61
Baptist	1	1	4	.....	3	.....	1	.....	.....	.....	1	.....	11
Congregational	1	.....	3	.....	1	.....	.....	.....	.....	.....	.....	.....	5
Lutheran	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	2
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	3
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2
Others	.....	.....	2	1	.....	.....	.....	.....	.....	.....	3	.....	6
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Total Grooms	104	66	160	55	16	3	5	.....	3	2	12	1	427

Licenses, 420. Banns, 7.

Marriages by Ages in the County of Frontenac, 1912.

GROOMS.

BRIDES. Age	15	20	25	30	35	40	45	50	55	60	65	70	Not stated	Total
15	7	63	27	3	1	.....	1	.....	.....	.....	.....	.....	.....	102
20	1	86	56	16	9	1	2	.....	.....	.....	.....	.....	.....	171
25	.....	7	39	15	9	10	.....	.....	.....	.....	.....	.....	.....	80
30	.....	3	8	10	8	6	4	2	1	.....	.....	.....	.....	42
35	.....	.....	.....	4	4	3	5	.....	.....	.....	.....	.....	.....	16
40	.....	.....	.....	.....	.....	2	5	2	1	.....	.....	.....	.....	10
45	.....	.....	.....	.....	.....	.....	1	1	1	1	.....	.....	.....	4
50	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	2
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.	8	159	130	48	31	23	18	5	4	1	.....	.....	.....	427

Marriages by Denominations in the County of Grey, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutherin.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	34	14	12	.....	4	.....	.....	.....	.....	.....	.....	.....	64
Presbyterian	16	92	29	.....	6	2	2	.....	.....	.....	4	.....	151
Methodist	25	40	100	1	5	.....	.....	1	.....	.....	4	.....	176
Roman Catholic	.....	.....	2	16	1	.....	2	.....	.....	.....	1	.....	22
Baptist	3	3	9	.....	11	.....	1	.....	.....	1	.....	.....	28
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	2	5	.....	.....	.....	.....	18	2	.....	.....	.....	.....	27
Evangelical Association	.....	1	1	.....	.....	.....	.....	5	.....	.....	1	.....	8
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	2	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	5
Others	.....	4	1	1	.....	.....	.....	.....	.....	.....	9	.....	15
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	80	161	154	18	27	2	23	8	.....	4	19	.....	496

Licenses, 479. Banns, 17.

Marriages by Ages in the County of Grey, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	2	67	26	5	2	1	.....	.....	.....	.....	.....	.....	.....	103
20	2	85	65	35	11	2	2	.....	.....	.....	.....	.....	.....	202
25	.....	18	60	31	10	1	2	.....	.....	.....	.....	.....	.....	122
30	.....	4	9	8	8	2	.....	.....	.....	.....	.....	.....	.....	31
35	.....	1	1	.....	5	3	3	.....	1	.....	.....	.....	.....	14
40	.....	1	.....	1	3	2	2	1	1	.....	.....	.....	.....	11
45	.....	.....	.....	.....	.....	.....	2	.....	2	1	.....	.....	.....	5
50	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	2
55	.....	.....	.....	.....	.....	.....	.....	1	1	1	1	.....	.....	4
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
70 & over.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.	4	176	161	80	39	11	12	2	5	3	1	2	.....	496

Marriages by Denominations in the County of Haldimand, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	11	5	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	19
Presbyterian	2	13	6	.....	3	.....	1	.....	.....	.....	1	.....	26
Methodist	3	11	31	.....	5	1	.....	.....	.....	.....	2	.....	53
Roman Catholic	2	.....	1	6	.....	.....	.....	.....	.....	.....	.....	.....	9
Baptist	2	.....	8	.....	5	.....	2	.....	.....	.....	2	.....	19
Congregational	1	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	3
Lutheran	.....	.....	.....	.....	3	.....	3	.....	.....	.....	1	.....	7
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	5	.....	.....	.....	.....	5
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Others	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2	.....	3
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Total Grooms	21	29	50	6	17	2	6	5	.....	1	8	1	146

Licenses, 142. Banns, 4.

Marriages by Ages in the County of Haldimand, 1912.

GROOMS

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70	Not stated	Total
15	3	24	7	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	36
20	1	37	16	5	1	.....	.....	.....	.....	.....	.....	.....	.....	60
25	.....	5	14	6	4	.....	.....	.....	.....	.....	.....	.....	.....	29
30	.....	1	1	4	1	.....	.....	.....	.....	.....	.....	.....	.....	7
35	.....	.....	.....	.....	3	2	.....	.....	.....	.....	.....	.....	.....	5
40	.....	.....	.....	.....	1	2	.....	1	.....	1	.....	.....	.....	5
45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	2
55	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	4	67	38	17	10	4	.....	3	1	1	1	.....	.....	146

BRIDES.

Marriages by Denominations in the County of Haliburton, 1912.

Grooms. / Brides.	Anglican	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	1	2											3
Presbyterian		3	1										4
Methodist	3	1	8										12
Roman Catholic													
Baptist	1												1
Congregational													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Others													
No Denomination												2	2
Total Grooms	5	6	9									2	22

Licenses, 22. Banns, ...

Marriages by Ages in the County of Haliburton, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70	Not stated	Total.
15		5	1											6
20		4	3	2		2								11
25			1	1										2
30					1	1								2
35														
40														
45														
50										1				1
55														
60														
65														
70														
Age not stated.														
Totals		9	5	3	1	3				1				22

Marriages by Denominations in the County of Halton, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides
Anglican	40	5	7	1	.....	.....	.....	.....	.....	.....	1	.....	54
Presbyterian	3	31	8	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
Methodist	9	4	29	.....	.....	1	.....	.....	.....	.....	1	.....	44
Roman Catholic	.....	.....	1	4	.....	.....	.....	.....	.....	.....	.....	.....	5
Baptist	.....	3	2	.....	6	.....	.....	.....	.....	.....	.....	.....	11
Congregational	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	2
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	53	44	47	5	7	1	.....	.....	.....	.....	3	.....	160

Licenses, 157. Banns, 3.

Marriages by Ages in the County of Halton, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	1	11	3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	16
20	.....	28	21	8	3	2	.....	.....	.....	.....	.....	.....	.....	62
25	.....	6	19	9	4	1	1	.....	.....	.....	.....	.....	.....	40
30	.....	.....	4	8	4	.....	.....	.....	.....	.....	.....	.....	.....	16
35	.....	.....	.....	3	4	1	.....	3	.....	.....	.....	.....	.....	11
40	.....	.....	.....	.....	1	2	.....	.....	1	.....	1	.....	.....	5
45	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
50	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	2
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
65	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	2
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	1	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
Totals	1	46	49	31	16	6	1	4	2	.....	2	2	.....	160

Marriages by Denominations in the County of Hastings, 1912.

Brides. / Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	52	11	27	3	2	.....	1	.....	.....	.....	1	.....	97
Presbyterian	9	28	21	2	.....	.....	.....	.....	.....	.....	.....	.....	60
Methodist	21	20	186	6	5	.....	.....	1	.....	.....	2	.....	241
Roman Catholic	3	.....	2	37	.....	.....	.....	.....	.....	.....	.....	.....	42
Baptist	2	.....	2	.....	6	.....	.....	.....	.....	.....	.....	.....	10
Congregational	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Lutheran	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Evangelical Association	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	3
Others	1	1	.....	.....	1	.....	.....	.....	.....	9	.....	.....	12
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Total Grooms	89	60	239	48	14	1	2	1	.....	12	3	1	470

Licenses, 440. Banns, 30.

Marriages by Ages in the County of Hastings, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	7	63	33	7	2	1	.....	.....	.....	.....	.....	.....	.....	113
20	3	88	64	28	6	2	2	.....	.....	.....	.....	.....	.....	193
25	.....	15	47	20	6	3	2	1	.....	.....	.....	.....	.....	94
30	.....	2	6	6	5	4	.....	1	1	.....	.....	.....	.....	25
35	.....	.....	2	3	1	4	1	1	.....	.....	.....	.....	.....	12
40	.....	.....	1	.....	2	1	1	2	.....	.....	.....	.....	.....	7
45	.....	.....	.....	.....	.....	2	.....	1	5	1	2	.....	.....	11
50	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	2	.....	4
55	.....	.....	.....	.....	.....	.....	2	.....	1	1	1	.....	.....	5
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1	1	.....	4
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	10	168	153	64	22	17	8	7	7	5	4	5	.....	470

BRIDES.

Marriages by Denominations in the County of Huron, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	24	9	15	.....	.....	1	.....	.....	.....	.....	.....	.....	49
Presbyterian	6	73	29	.....	2	.....	2	.....	.....	.....	1	.....	113
Methodist	11	25	90	.....	3	1	1	.....	.....	.....	.....	.....	131
Roman Catholic	.....	1	.....	21	.....	.....	1	.....	.....	.....	.....	.....	23
Baptist	.....	1	2	.....	1	.....	.....	.....	.....	.....	.....	.....	4
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	3	.....	.....	.....	.....	.....	3	1	.....	.....	.....	.....	7
Evangelical Association	.....	2	1	.....	.....	.....	1	10	.....	.....	.....	.....	14
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	1	2	2	.....	.....	.....	.....	.....	.....	.....	2	.....	7
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	45	113	139	21	6	2	8	11	.....	.....	3	.....	348

Licenses, 340. Banns, 8.

Marriages by Ages in the County of Huron, 1912.

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	5	18	9	1	1	.....	.....	.....	.....	.....	.....	1	.....	35
20	3	64	55	15	4	3	.....	.....	1	.....	.....	.....	.....	145
25	1	8	48	22	8	8	1	.....	.....	.....	.....	1	.....	97
30	.....	.....	7	15	6	5	4	.....	.....	.....	.....	.....	.....	37
35	.....	.....	.....	3	6	1	3	1	1	.....	.....	.....	.....	15
40	.....	.....	.....	.....	1	5	1	.....	1	1	.....	.....	.....	9
45	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	2
50	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	2
65	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated	.....	2	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	3
Totals	9	92	119	56	27	22	9	3	4		2	3	.....	348

Marriages by Denominations in the County of Kenora, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	7	1	2	2	.....	.....	.....	.....	.....	.....	2	.....	14
Presbyterian	1	8	1	1	.....	.....	.....	.....	.....	.....	.....	.....	11
Methodist	.....	1	4	1	1	.....	.....	.....	.....	.....	.....	.....	7
Roman Catholic	1	2	1	8	.....	.....	.....	.....	.....	.....	.....	.....	12
Baptist	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Congregational	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Lutheran	.....	.....	.....	.....	.....	.....	8	.....	.....	.....	.....	.....	8
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	10	12	9	12	1	.....	8	.....	.....	.....	2	.....	54

Licenses, 53. Banns, 1.

Marriages by Ages in the County of Kenora, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	.....	5	4	1	1	.....	.....	.....	.....	.....	.....	.....	.....	11
20	.....	10	9	3	1	.....	.....	.....	.....	.....	.....	.....	.....	23
25	.....	.....	3	2	4	.....	.....	.....	.....	.....	.....	.....	.....	9
30	.....	1	1	3	1	.....	.....	.....	.....	.....	.....	.....	.....	6
35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
40	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	2
45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	2
Totals	.....	16	17	10	9	.....	1	.....	.....	.....	1	.....	.....	54

BRIDES.

Marriages by Denominations in the County of Kent, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others	No Denomination.	Total Brides.
Anglican	37	12	14	4	4	.....	.....	.....	.....	.....	2	.....	73
Presbyterian	8	43	17	3	3	.....	.....	.....	.....	.....	.....	.....	74
Methodist	23	14	117	3	14	1	2	.....	1	.....	2	.....	177
Roman Catholic	3	2	2	75	.....	.....	.....	.....	.....	.....	.....	.....	82
Baptist	4	2	15	.....	24	.....	.....	.....	.....	.....	.....	.....	45
Congregational	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Lutheran	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2
Others	1	2	4	1	3	.....	.....	.....	.....	.....	8	.....	19
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	76	76	160	86	48	1	2	.....	1	2	13	.....	475

Licenses, 442. Banns, 33.

Marriages by Ages in the County of Kent, 1912.

GROOMS.

BRIDES. Ages	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	9	63	33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	105
20	2	99	66	12	6	2	.....	.....	.....	.....	.....	.....	.....	187
25	.....	9	49	15	11	1	2	.....	2	.....	.....	.....	.....	89
30	.....	1	6	19	8	3	4	.....	.....	.....	.....	.....	.....	41
35	.....	.....	1	2	9	3	3	.....	4	.....	.....	.....	.....	22
40	.....	.....	.....	.....	4	2	3	1	.....	1	.....	.....	.....	11
45	.....	.....	.....	.....	.....	2	.....	3	1	.....	.....	.....	.....	6
50	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
55	.....	.....	.....	.....	.....	.....	.....	1	2	1	.....	.....	.....	4
60	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Age not stated.	.....	.....	3	2	.....	.....	1	.....	.....	.....	.....	.....	.....	6
Totals.	11	172	158	50	38	13	13	5	11	2	1	1	.....	475

Marriages by Denominations in the County of Lambton, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	34	18	10	2	5	1	1	.....	1	1	2	.....	75
Presbyterian	8	73	24	1	3	.....	.....	.....	.....	.....	1	.....	110
Methodist	7	21	149	7	10	3	1	1	.....	.....	1	.....	200
Roman Catholic	3	5	2	21	1	.....	2	.....	.....	.....	1	.....	35
Baptist	3	6	12	2	23	.....	1	.....	.....	.....	1	.....	48
Congregational	2	.....	3	1	.....	1	.....	.....	.....	.....	1	.....	8
Lutheran	1	1	5	.....	.....	.....	2	.....	.....	.....	1	.....	10
Evengelical Association	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Others	1	1	2	2	.....	1	.....	.....	.....	.....	15	3	25
No Denomination	.....	.....	1	.....	1	.....	.....	.....	.....	.....	2	.....	4
Total Grooms	59	125	209	36	43	6	7	1	2	2	25	3	518

Licenses, 511. Banns, 7.

Marriages by Ages in the County of Lambton, 1912.

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	7	88	22	6	.....	.....	.....	.....	.....	.....	.....	.....	1	124
20	3	90	76	16	9	.....	1	.....	.....	.....	.....	.....	.....	195
25	.....	14	45	23	12	3	2	1	.....	.....	.....	.....	.....	100
30	.....	.....	5	13	9	4	7	2	.....	.....	.....	.....	.....	40
35	.....	.....	1	4	5	4	3	.....	.....	.....	.....	.....	.....	17
40	.....	.....	.....	.....	4	3	4	1	1	1	.....	.....	.....	14
45	.....	.....	.....	.....	1	1	6	3	.....	2	.....	.....	.....	13
50	.....	.....	.....	.....	.....	.....	2	3	2	.....	1	1	.....	9
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	2	1	.....	4
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2
Totals	10	192	150	62	40	15	25	11	3	3	3	2	2	518

Marriages by Denominations in the County of Lanark, 1912.

Brides. / Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	35	12	7	2	2	.....	1	.....	.....	.....	.....	.....	59
Presbyterian	10	60	11	.....	3	2	.....	.....	.....	.....	2	.....	88
Methodist	10	8	27	3	1	.....	.....	1	.....	.....	2	.....	52
Roman Catholic	1	.....	.....	35	.....	.....	.....	.....	.....	.....	.....	.....	36
Baptist	1	3	2	.....	2	1	.....	.....	.....	.....	.....	.....	9
Congregational	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	57	83	47	40	8	4	1	1	.....	.....	4	.....	245

Licenses, 213. Banns, 32.

Marriages by Ages in the County of Lanark, 1912.

GROOMS.

BRIDES. Ages.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	Totals
15	3	22	14	2	2	.....	.....	.....	.....	.....	.....	.....	.....	43
20	1	40	31	15	4	.....	.....	.....	.....	.....	.....	.....	.....	91
25	.....	6	31	17	3	2	1	.....	.....	.....	.....	.....	.....	60
30	.....	1	6	11	5	2	.....	.....	.....	.....	.....	.....	.....	25
35	.....	.....	1	4	7	3	.....	1	.....	1	.....	.....	.....	17
40	.....	.....	.....	.....	.....	2	.....	1	.....	1	.....	.....	.....	4
45	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	2
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Age not stated	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Totals	4	69	83	49	21	9	2	3	.....	4	1	.....	.....	245

Marriages by Denominations in the Counties of Leeds and Grenville, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	57	20	28	4	4	.....	1	.....	.....	.....	.....	.....	114
Presbyterian	13	39	18	6	3	.....	1	.....	.....	.....	1	.....	81
Methodist	21	16	141	4	7	1	2	.....	.....	.....	3	.....	195
Roman Catholic	4	1	6	51	1	.....	.....	.....	.....	.....	1	.....	67
Baptist	2	2	6	.....	6	1	.....	.....	.....	.....	1	.....	18
Congregational	2	.....	2	.....	.....	2	.....	.....	.....	.....	.....	.....	6
Lutheran	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Others	.....	.....	5	2	.....	.....	.....	.....	.....	.....	7	.....	14
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	99	81	208	67	21	4	4	.....	.....	1	13	.....	498

Licenses, 480. Banns, 18.

Marriages by Ages in the Counties of Leeds and Grenville, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	11	64	21	3	2	.....	.....	.....	.....	.....	.....	.....	.....	101
20	2	93	60	13	10	6	1	.....	.....	.....	.....	.....	.....	185
25	1	15	49	22	21	3	.....	.....	.....	.....	.....	.....	.....	111
30	.....	2	6	19	6	3	2	2	.....	.....	.....	.....	.....	40
35	.....	.....	3	3	9	3	3	2	.....	.....	.....	.....	.....	23
40	.....	.....	.....	.....	1	5	2	2	2	1	.....	.....	.....	13
45	.....	.....	.....	.....	1	1	2	1	2	.....	1	.....	.....	8
50	.....	.....	.....	.....	.....	1	1	.....	1	1	.....	.....	.....	4
55	.....	.....	.....	.....	.....	.....	.....	.....	1	2	1	.....	.....	4
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated	.....	3	1	.....	.....	1	.....	.....	.....	.....	.....	1	.....	6
Totals	14	177	140	60	50	23	11	7	6	4	4	2	.....	498

Marriages by Denominations in the Counties of Lennox and Addington, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	16	3	10	1	.....	.....	.....	.....	.....	.....	.....	.....	30
Presbyterian	1	8	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
Methodist	8	13	81	.....	.....	.....	1	.....	.....	.....	.....	1	104
Roman Catholic	.....	.....	1	6	.....	.....	.....	.....	.....	.....	.....	.....	7
Baptist	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	25	24	95	7	.....	.....	1	.....	.....	.....	1	1	154

Licenses, 149. Banns, 5.

Marriages by Ages in the Counties of Lennox and Addington, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	4	22	12	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
20	1	31	25	11	2	3	.....	.....	.....	.....	.....	.....	.....	73
25	.....	1	7	6	2	1	.....	.....	.....	.....	.....	.....	.....	20
30	.....	2	2	1	.....	.....	1	.....	.....	.....	.....	.....	.....	6
35	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	2
40	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
45	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	2
50	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	2
55	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Totals	5	59	46	24	4	5	4	3	1	.....	1	2	.....	154

BRIDES.

Marriages by Denominations in the County of Lincoln, 1912.

Brides. / Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	68	10	10	4	1	1	1	1	.....	.....	2	.....	98
Presbyterian	6	38	14	1	4	.....	1	.....	.....	.....	4	.....	68
Methodist	6	13	55	.....	8	1	.....	1	.....	.....	2	.....	86
Roman Catholic	3	2	2	31	.....	1	.....	.....	.....	.....	2	.....	41
Baptist	3	4	5	2	10	.....	.....	.....	.....	.....	.....	.....	24
Congregational	1	.....	2	.....	.....	3	.....	.....	.....	.....	.....	.....	5
Lutheran	1	1	1	.....	.....	.....	2	.....	.....	.....	.....	.....	5
Evangelical Association	.....	.....	1	.....	.....	.....	.....	1	.....	.....	.....	.....	2
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	3
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Others	1	4	2	.....	2	.....	1	1	.....	.....	4	.....	15
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	89	72	90	38	25	5	5	4	3	1	14	.....	348

Licenses, 218. Banns, 30.

Marriages by Ages in the County of Lincoln, 1912.

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & over	No stated	Total.
15	1	42	18	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	64
20	1	59	48	11	1	2	.....	.....	.....	1	.....	.....	.....	123
25	.....	8	54	21	7	4	1	.....	.....	.....	.....	.....	.....	95
30	.....	3	4	11	6	4	.....	.....	.....	.....	.....	1	.....	29
35	.....	.....	1	2	3	6	4	.....	.....	.....	.....	.....	.....	18
40	.....	.....	.....	1	1	3	3	1	.....	1	.....	.....	.....	10
45	.....	.....	.....	.....	.....	2	.....	1	4	.....	.....	.....	.....	7
50	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	2	112	125	49	20	21	8	3	4	2	.....	2	.....	348

Marriages by Denominations in the County of Manitoulin, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	4	1	2	.....	2	.....	.....	.....	.....	.....	.....	.....	9
Presbyterian	3	13	1	.....	2	.....	.....	.....	.....	.....	2	.....	21
Methodist	1	2	12	.....	2	.....	.....	.....	.....	.....	.....	.....	17
Roman Catholic	.....	.....	.....	5	.....	.....	.....	.....	.....	.....	.....	.....	5
Baptist	.....	1	.....	.....	1	.....	.....	.....	.....	.....	1	.....	3
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	8	17	15	5	7	.....	1	.....	.....	.....	3	.....	56

Licenses, 54. Banns, 2.

Marriages by Ages in the County of Manitoulin, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	.....	3	7	3	1	.....	.....	.....	.....	.....	.....	.....	.....	14
20	.....	8	7	6	3	.....	.....	.....	.....	.....	.....	.....	.....	24
25	.....	1	9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	10
30	.....	.....	.....	1	1	2	1	.....	.....	.....	.....	.....	.....	5
35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
40	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	2
45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	.....	12	23	10	5	3	1	.....	1	.....	.....	1	.....	56

BRIDES.

Marriages by Denominations in the County of Middlesex, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	136	36	42	4	7	1	.....	.....	.....	.....	5	1	232
Presbyterian	22	97	38	.....	15	2	3	.....	.....	1	2	.....	180
Methodist	34	14	183	1	21	3	.....	.....	1	.....	4	.....	291
Roman Catholic	6	2	3	55	.....	1	1	.....	.....	.....	3	.....	71
Baptist	20	14	20	2	40	1	.....	.....	.....	.....	1	.....	98
Congregational	1	.....	2	1	.....	1	.....	.....	.....	1	.....	.....	6
Lutheran	1	.....	.....	.....	1	.....	2	.....	.....	.....	.....	.....	4
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	7	.....	.....	.....	7
Salvation Army	.....	.....	1	.....	1	.....	.....	.....	.....	4	.....	.....	6
Others	1	2	7	.....	.....	.....	1	.....	.....	.....	19	.....	33
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	224	195	296	63	85	9	7	.....	8	6	34	1	928

Licenses, 893. Banns, 35

Marriages by Ages in the County of Middlesex, 1912.

GROOMS

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	9	84	32	9	2	1	.....	1	.....	.....	.....	.....	.....	138
20	3	193	135	39	7	3	.....	.....	.....	.....	.....	.....	.....	380
25	.....	38	106	44	21	4	1	.....	.....	.....	.....	.....	.....	214
30	.....	4	20	44	24	5	6	1	.....	.....	.....	.....	.....	104
35	.....	1	3	4	6	7	7	3	.....	2	.....	1	.....	34
40	.....	.....	1	1	3	10	6	4	6	2	.....	.....	.....	33
45	.....	.....	.....	.....	1	.....	1	4	2	2	.....	.....	.....	10
50	.....	.....	.....	.....	1	.....	.....	.....	3	2	.....	.....	.....	6
55	.....	.....	.....	.....	.....	.....	1	.....	.....	1	1	.....	.....	3
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2	1	.....	5
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	12	320	297	141	65	30	22	13	11	12	3	2	.....	928

Marriages by Denominations in the District of Muskoka, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	21	7	5	.....	2	.....	1	.....	.....	.....	.....	.....	36
Presbyterian	8	32	3	.....	1	.....	2	.....	.....	.....	.....	.....	46
Methodist	3	6	33	1	3	.....	.....	.....	.....	1	.....	.....	47
Roman Catholic	.....	1	.....	12	.....	.....	.....	.....	.....	.....	.....	.....	13
Baptist	3	1	4	.....	4	.....	1	.....	.....	1	.....	.....	14
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	1	.....	1	.....	.....	.....	.....	.....	.....	.....	2	.....	4
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	36	47	46	13	10	.....	4	.....	.....	2	2	.....	160

Licenses, 152. Banns 8.

Marriages by Ages in the District of Muskoka, 1912.

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	2	22	15	3	2	.....	.....	.....	.....	.....	.....	.....	.....	44
20	1	27	26	12	4	.....	.....	.....	.....	.....	.....	.....	.....	70
25	.....	2	10	7	1	3	1	.....	.....	.....	.....	.....	.....	24
30	.....	1	.....	8	.....	.....	.....	2	.....	.....	.....	.....	.....	11
35	.....	.....	.....	1	1	.....	1	.....	.....	1	.....	.....	.....	4
40	.....	.....	.....	.....	.....	.....	1	1	1	1	.....	.....	.....	4
45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Totals.	3	52	51	31	9	3	3	4	1	3	.....	.....	.....	160

Marriages by Denominations in the District of Nipissing, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	41	13	9	1	4	.....	1	.....	.....	.....	1	.....	70
Presbyterian	8	54	9	3	1	.....	.....	.....	.....	.....	2	.....	77
Methodist	11	9	36	1	4	.....	1	.....	.....	.....	.....	.....	62
Roman Catholic	6	7	2	190	1	.....	.....	.....	.....	.....	2	1	209
Baptist	6	4	5	.....	13	.....	.....	.....	.....	.....	1	.....	29
Congregational	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Lutheran	.....	.....	.....	1	1	.....	14	.....	.....	.....	.....	.....	16
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Salvation Army	1	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	3
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	4
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Total Grooms	73	87	61	196	24	1	16	.....	1	2	10	2	473

Licenses, 359. Banns, 76.

Marriages by Ages in the District of Nipissing, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	5	96	44	13	4	.....	1	.....	.....	.....	.....	.....	.....	163
20	1	80	71	22	8	4	.....	.....	.....	.....	.....	.....	.....	186
25	1	15	36	21	5	2	2	.....	.....	.....	.....	.....	.....	82
30	.....	.....	9	5	4	2	1	....	.....	.....	.....	.....	.....	21
35	.....	1	1	3	4	1	.....	1	.....	.....	.....	.....	.....	11
40	.....	.....	.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	3
45	.....	.....	.....	.....	1	.....	.....	2	1	.....	.....	.....	.....	4
50	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	7	192	161	65	27	9	5	3	3	1	.....	.....	.....	473

Marriages by Denominations in the County of Norfolk, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	17	3	2	.....	3	.....	.....	.....	.....	.....	.....	.....	25
Presbyterian	3	6	3	.....	3	.....	.....	.....	.....	.....	.....	.....	15
Methodist	6	9	59	.....	9	.....	.....	.....	.....	.....	2	.....	85
Roman Catholic	.....	.....	.....	3	1	.....	.....	.....	.....	.....	.....	.....	4
Baptist	3	3	16	.....	28	.....	1	.....	.....	.....	1	.....	52
Congregational	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2
Others	.....	1	3	.....	2	.....	.....	.....	.....	.....	2	.....	8
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	29	23	83	3	46	.....	1	.....	.....	.....	8	.....	193

Licenses, 189. Banns, 4.

Marriages by Ages in the County of Norfolk, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	5	34	7	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
20	2	35	23	5	2	1	.....	.....	.....	.....	.....	.....	.....	68
25	.....	10	15	8	3	.....	1	.....	.....	.....	.....	.....	.....	37
30	.....	.....	2	5	1	3	3	1	1	.....	.....	.....	.....	16
35	.....	.....	.....	2	3	1	1	.....	.....	1	.....	.....	.....	8
40	.....	.....	.....	1	2	1	.....	1	.....	.....	.....	.....	.....	5
45	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
50	.....	.....	.....	.....	1	.....	2	1	.....	2	1	.....	.....	7
55	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	2
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Totals	7	79	48	23	12	6	7	4	2	4	1	.....	.....	193

Marriages by Denominations in the Counties of Northumberland and Durham, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	32	16	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	63
Presbyterian	12	45	15	3	4	1	1	.....	.....	.....	.....	.....	81
Methodist	20	18	144	2	3	1	.....	.....	.....	1	.....	.....	189
Roman Catholic	2	1	2	21	1	.....	.....	.....	.....	.....	.....	.....	27
Baptist	4	2	2	.....	3	.....	.....	.....	.....	.....	.....	.....	11
Congregational	.....	.....	1	.....	.....	3	.....	.....	.....	.....	.....	.....	4
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	1	4	6	.....	.....	.....	.....	.....	.....	.....	4	.....	15
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	71	86	185	26	11	5	1	.....	.....	1	4	.....	390

Licenses, 386. Banns, 4.

Marriages by Ages in the Counties of Northumberland and Durham, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	2	39	10	3	.....	1	.....	.....	.....	.....	.....	.....	.....	55
20	2	87	55	25	9	2	1	.....	.....	1	.....	.....	.....	182
25	.....	7	35	16	9	4	.....	1	.....	.....	.....	.....	.....	72
30	.....	.....	3	9	14	1	1	2	.....	.....	.....	.....	.....	30
35	.....	1	3	.....	2	5	6	5	.....	.....	1	.....	.....	23
40	.....	.....	.....	1	1	2	2	2	.....	1	.....	.....	.....	9
45	.....	.....	.....	2	.....	.....	.....	.....	2	.....	.....	.....	.....	4
50	.....	.....	.....	.....	.....	.....	.....	1	1	1	.....	.....	.....	3
55	.....	.....	.....	.....	.....	.....	.....	1	2	.....	1	.....	.....	4
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	1	2	.....	1	.....	1	1	.....	.....	.....	.....	.....	6
Totals.	4	135	108	56	36	15	11	13	6	3	2	1	.....	390

Marriages by Denominations in the County of Ontario, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	28	6	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
Presbyterian	6	29	25	.....	1	1	.....	.....	.....	.....	1	.....	63
Methodist	10	18	86	.....	1	.....	.....	.....	.....	.....	7	.....	122
Roman Catholic	.....	.....	.....	18	.....	.....	.....	.....	.....	.....	.....	.....	18
Baptist	.....	2	2	.....	7	.....	1	.....	.....	.....	.....	.....	12
Congregational	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Lutheran	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Salvation Army	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Others	1	1	1	.....	.....	1	.....	.....	.....	.....	8	.....	12
No Denomination	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	2
Total Grooms	45	57	125	18	9	3	2	.....	1	.....	16	1	277

Licenses, 262. Banns, 15.

Marriages by Ages in the County of Ontario, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	2	27	9	3	2	.....	.....	.....	.....	.....	.....	.....	.....	43
20	.....	45	38	12	7	1	.....	.....	.....	.....	.....	.....	.....	103
25	.....	7	45	16	12	1	2	.....	.....	.....	.....	.....	.....	83
30	.....	2	5	10	4	2	1	.....	.....	.....	.....	.....	.....	24
35	.....	.....	.....	3	3	2	.....	1	.....	.....	.....	.....	.....	9
40	.....	.....	.....	.....	1	2	1	.....	.....	1	.....	.....	.....	5
45	.....	.....	1	.....	.....	1	1	1	.....	.....	.....	.....	.....	4
50	.....	.....	.....	.....	.....	2	.....	.....	1	.....	1	.....	.....	4
55	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.	2	81	98	44	29	11	5	3	1	2	1	.....	.....	277

BRIDES.

Marriages by Denominations in the County of Oxford, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	34	9	5	.....	4	.....	1	.....	.....	1	.....	.....	54
Presbyterian	13	40	16	2	6	1	3	.....	.....	.....	1	.....	82
Methodist	15	13	87	.....	14	1	3	2	.....	.....	1	.....	136
Roman Catholic	1	.....	3	14	.....	.....	.....	.....	.....	.....	.....	.....	18
Baptist	8	5	9	.....	38	.....	.....	.....	.....	.....	1	.....	61
Congregational	1	3	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	5
Lutheran	.....	1	1	.....	.....	.....	4	.....	.....	.....	1	.....	7
Evangelical Association	.....	2	1	.....	.....	.....	.....	2	.....	.....	.....	.....	5
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	1	.....	.....	.....	.....	4	.....	.....	5
Others	.....	2	1	.....	1	.....	.....	.....	.....	.....	5	.....	9
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	72	75	124	16	64	2	11	4	.....	5	9	.....	382

Licenses, 373. Banns, 9.

Marriages by Ages in the County of Oxford, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	4	34	10	3	1	.....	.....	.....	.....	.....	.....	.....	.....	52
20	1	71	59	13	4	.....	1	.....	.....	.....	.....	.....	.....	149
25	.....	12	59	27	5	3	.....	.....	.....	.....	.....	.....	.....	106
30	.....	1	7	14	7	1	1	3	.....	1	.....	.....	.....	35
35	.....	.....	1	3	6	5	3	.....	.....	1	.....	.....	.....	19
40	.....	.....	.....	.....	1	.....	1	1	1	1	.....	.....	.....	5
45	.....	.....	.....	1	.....	.....	2	1	2	.....	1	.....	.....	7
50	.....	.....	.....	.....	.....	.....	.....	2	1	.....	.....	.....	.....	3
55	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	1	.....	3
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Totals	5	118	136	63	24	9	9	7	4	3	3	1	.....	382

BRIDES.

Marriages by Denominations in the District of Parry Sound, 1912.

Grooms. / Brides.	Anglican.	Presbyterian	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	15	7	2	2	2	.....	1	.....	.....	.....	.....	.....	29
Presbyterian	5	31	6	1	.....	.....	.....	.....	.....	.....	.....	.....	43
Methodist	5	9	30	.....	2	.....	1	.....	.....	.....	.....	.....	47
Roman Catholic	1	1	.....	25	.....	.....	.....	.....	.....	.....	.....	.....	27
Baptist	2	1	1	.....	3	.....	.....	.....	.....	.....	.....	.....	7
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	3	.....	1	.....	.....	.....	5	.....	.....	.....	.....	.....	9
Evangelical Association	1	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	2
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	2
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Total Grooms	33	49	40	28	7	.....	7	1	.....	.....	1	1	167

Licenses, 151. Banns, 16.

Marriages by Ages in the District of Parry Sound, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	.....	30	16	5	1	2	1	1	.....	.....	.....	.....	.....	56
20	.....	28	27	14	5	.....	1	.....	.....	.....	.....	.....	.....	75
25	.....	.....	10	2	1	2	.....	.....	.....	.....	.....	.....	.....	15
30	.....	.....	4	5	.....	1	.....	.....	.....	.....	.....	.....	.....	10
35	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....	.....	.....	3
40	.....	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	3
45	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	2
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	.....	58	57	28	8	6	3	3	2	1	1	.....	.....	167

Marriages by Denominations in the County of Peel, 1912.

Brides. / Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	11	4	8	1	1	.....	.....	.....	.....	.....	2	.....	27
Presbyterian	4	17	8	.....	1	1	.....	.....	.....	.....	.....	.....	31
Methodist	8	12	51	.....	2	.....	.....	.....	.....	.....	.....	.....	73
Roman Catholic	1	.....	1	3	.....	.....	.....	.....	.....	.....	.....	.....	5
Baptist	.....	1	2	.....	2	.....	.....	.....	.....	.....	.....	.....	5
Congregational	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	24	34	71	4	6	1	.....	.....	.....	.....	2	.....	142

Licenses, 136. Banns, 6.

Marriages by Ages in the County of Peel, 1912.

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	1	6	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9
20	.....	23	10	8	1	1	.....	1	.....	.....	.....	.....	.....	44
25	.....	5	25	15	7	.....	.....	.....	.....	.....	.....	.....	.....	52
30	.....	1	4	5	3	.....	2	.....	.....	.....	.....	.....	.....	15
35	.....	.....	.....	2	8	3	1	1	.....	.....	.....	.....	.....	15
40	.....	.....	.....	.....	1	2	2	.....	.....	.....	.....	.....	.....	5
45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.	1	35	41	30	20	6	5	2	.....	1	1	.....	.....	142

Marriages by Denominations in the County of Perth, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	37	8	8	2	.....	.....	4	1	.....	.....	.....	.....	60
Presbyterian	11	73	17	.....	4	.....	3	.....	.....	.....	.....	.....	108
Methodist	3	17	55	.....	3	1	7	1	.....	.....	.....	.....	87
Roman Catholic	3	1	2	33	.....	.....	.....	.....	.....	.....	.....	.....	39
Baptist	2	5	1	.....	4	1	.....	.....	.....	.....	.....	.....	13
Congregational	1	1	2	.....	.....	1	.....	.....	.....	.....	.....	.....	5
Lutheran	2	7	6	.....	1	1	37	.....	.....	.....	2	.....	56
Evangelical Association	1	1	2	.....	.....	.....	3	11	.....	.....	.....	.....	18
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	4	3	.....	.....	1	.....	.....	.....	.....	9	.....	17
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	60	117	96	35	12	5	54	13	.....	.....	11	.....	403

Licenses, 383. Banns, 20.

Marriages by Ages in the County of Perth, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	1	24	18	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	47
20	3	56	79	17	5	1	2	.....	.....	.....	.....	.....	.....	163
25	.....	16	55	34	7	5	1	.....	.....	.....	.....	.....	.....	118
30	.....	1	5	11	5	5	4	3	.....	.....	.....	.....	.....	34
35	.....	.....	1	5	10	.....	3	2	.....	.....	.....	.....	.....	21
40	.....	.....	.....	.....	.....	.....	1	4	.....	.....	.....	.....	.....	5
45	.....	.....	.....	.....	.....	1	1	1	.....	1	1	.....	.....	5
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
55	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	2
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	2
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	1	1	.....	.....	.....	.....	1	1	.....	.....	.....	1	5
Totals.	4	98	159	71	27	12	12	11	2	2	2	2	1	403

Marriages by Denominations in the County of Peterborough, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	44	11	17	.....	5	.....	.....	.....	.....	.....	2	.....	79
Presbyterian	8	41	23	.....	5	.....	.....	.....	.....	.....	.....	.....	77
Methodist	16	17	80	.....	4	1	.....	1	.....	1	2	.....	122
Roman Catholic	1	1	4	58	.....	.....	.....	.....	.....	.....	.....	.....	64
Baptist	3	4	7	.....	11	.....	.....	.....	.....	.....	.....	.....	25
Congregational	.....	1	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	4
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2
Others	.....	1	1	.....	.....	.....	.....	.....	.....	.....	1	.....	3
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	72	76	132	58	25	4	.....	1	1	3	5	.....	377

Licenses, 338. Banns, 39.

Marriages by Ages in the County of Peterborough, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'a	Not stated	Total
15	2	47	15	3	3	1	.....	.....	.....	.....	.....	.....	.....	71
20	1	67	61	14	6	.....	1	1	.....	.....	.....	.....	.....	151
25	.....	11	48	18	8	1	1	.....	.....	.....	.....	.....	.....	87
30	.....	.....	9	13	8	3	5	1	.....	.....	.....	.....	.....	39
35	.....	2	.....	2	3	3	6	.....	.....	.....	.....	.....	.....	16
40	.....	.....	.....	.....	1	1	1	2	.....	1	.....	.....	.....	6
45	.....	.....	.....	.....	.....	2	.....	.....	.....	1	.....	.....	.....	3
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	2
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Totals	3	127	133	50	29	11	14	4	2	4	.....	.....	.....	377

Marriages by Denominations in the Counties of Prescott and Russell, 1912.

Brides. / Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	5	1	1	.....	2	.....	.....	.....	.....	.....	.....	.....	9
Presbyterian	6	13	3	2	.....	.....	.....	.....	.....	.....	.....	.....	25
Methodist	4	2	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	16
Roman Catholic	.....	1	.....	284	.....	.....	.....	.....	.....	.....	.....	.....	285
Baptist	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	15	18	14	286	3	.....	.....	.....	.....	.....	.....	.....	336

Licenses, 117. Banns, 219.

Marriages by Ages in the Counties of Prescott and Russell, 1912.

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	4	85	17	1	2	.....	.....	.....	.....	.....	.....	.....	.....	109
20	1	75	40	16	3	4	.....	.....	.....	.....	.....	1	.....	140
25	1	12	21	9	6	.....	.....	.....	.....	.....	.....	.....	.....	49
30	.....	2	4	5	2	2	.....	.....	.....	.....	.....	.....	.....	15
35	.....	.....	1	1	1	1	3	.....	.....	.....	.....	.....	.....	7
40	.....	.....	.....	.....	.....	1	2	1	.....	.....	1	.....	.....	5
45	.....	.....	.....	.....	.....	.....	.....	2	1	.....	.....	.....	.....	3
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
55	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	2	1	1	.....	.....	.....	.....	.....	.....	.....	2	.....	6
Totals	6	176	84	33	14	8	5	3	2	1	1	3	.....	336

Marriages by Denominations in the County of Prince Edward, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	8	1	5	1	.....	.....	.....	.....	.....	.....	3	.....	18
Presbyterian	.....	1	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	5
Methodist	7	8	64	2	1	.....	.....	.....	.....	1	1	.....	84
Roman Catholic	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	3
Baptist	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Congregational	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	15	10	77	6	1	.....	.....	.....	.....	1	6	.....	116

Licenses, 113. Banns, 3.

Marriages by Ages in the County of Prince Edward, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	Total.
15	3	14	6	3	1	.....	.....	.....	.....	.....	.....	.....	.....	27
20	.....	24	23	5	1	1	.....	.....	.....	.....	.....	.....	.....	54
25	.....	1	7	3	.....	1	.....	.....	.....	.....	.....	.....	.....	12
30	.....	.....	.....	4	2	.....	1	.....	1	.....	.....	.....	.....	8
35	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	2
40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
45	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	2
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
55	.....	.....	.....	.....	.....	.....	.....	1	2	.....	1	.....	.....	4
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	2
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	2
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Age not stated	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Totals	3	39	36	16	4	2	3	2	4	3		3	.....	116

BRIDES.

Marriages by Denominations in the District of Rainy River, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	9	4	3	2									18
Presbyterian	3	13	2		2	1	1						22
Methodist		1	15	1							1		18
Roman Catholic	1	2	1	4									8
Baptist	2			1	1		1						5
Congregational				1									1
Lutheran	1	1	1	1			13				1		18
Evangelical Association													
Hebrew													
Salvation Army													
Others		1					1						2
No Denomination												4	4
Total Grooms	16	22	22	10	3	1	16				2	4	96

Licenses, 93. Banns, 3.

Marriages by Ages in the District of Rainy River, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	1	12	10	6										29
20	1	14	13	5		1								34
25		3	9	5										17
30			1	3	1		1							6
35			1	1			1							3
40					1		1							2
45			1		1									2
50							1			1				2
55														
60								1						1
65														
70 & over														
Age not stated														
Totals.	2	29	35	20	3	1	4	1		1				96

Marriages by Denominations in the County of Renfrew, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	8	7	3	1	.....	.....	.....	1	.....	.....	.....	.....	20
Presbyterian	9	56	19	4	1	.....	.....	.....	.....	.....	.....	.....	89
Methodist	6	11	24	2	.....	.....	1	.....	.....	.....	.....	.....	44
Roman Catholic	3	7	1	125	.....	.....	.....	2	.....	.....	.....	.....	138
Baptist	.....	7	1	.....	9	.....	2	2	.....	.....	.....	.....	21
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	1	.....	1	1	.....	.....	24	.....	.....	.....	.....	.....	27
Evangelical Association	.....	.....	1	.....	.....	.....	3	9	.....	.....	.....	.....	13
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	3	.....	4
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	3
Total Grooms	27	88	51	133	10	.....	30	14	1	.....	3	3	360

Licenses, 263. Banns, 97.

Marriages by Ages in the County of Renfrew, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	3	39	21	6	2	.....	.....	1	.....	.....	.....	.....	.....	72
20	1	65	54	38	3	3	1	.....	1	.....	.....	.....	.....	166
25	.....	9	24	20	9	3	1	.....	.....	.....	.....	.....	.....	66
30	.....	.....	8	13	2	4	.....	2	.....	.....	.....	.....	.....	29
35	.....	.....	1	3	4	3	.....	1	1	.....	.....	.....	.....	13
40	.....	.....	.....	.....	1	1	1	1	1	.....	.....	.....	.....	5
45	.....	.....	.....	.....	.....	2	.....	1	2	.....	.....	.....	.....	5
50	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	2
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
Totals	4	113	109	80	22	16	3	6	5	.....	.....	.....	2	360

Marriages by Denominations in the County of Simcoe, 1912.

Brides. / Grooms.	Anglican.	Presbyterian.	Methodist	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	59	21	23	1	5	.....	.....	1	.....	.....	.....	.....	110
Presbyterian	22	128	27	1	8	2	2	.....	.....	.....	2	.....	192
Methodist	23	38	116	2	4	.....	.....	.....	.....	.....	2	.....	185
Roman Catholic	1	5	.....	97	2	.....	.....	.....	.....	.....	1	.....	106
Baptist	1	4	6	2	7	1	.....	.....	.....	.....	.....	.....	21
Congregational	1	1	2	.....	.....	2	.....	.....	.....	.....	.....	.....	6
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	2
Salvation Army	.....	.....	2	.....	.....	.....	.....	.....	.....	4	.....	.....	6
Others	.....	5	2	.....	1	.....	.....	.....	.....	.....	11	.....	19
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	107	202	178	103	27	5	2	1	2	4	16	.....	647

Licenses, 597. Banns, 50.

Marriages by Ages in the County of Simcoe, 1912.

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	8	79	28	6	1	.....	1	.....	.....	1	.....	.....	.....	124
20	1	97	96	42	14	2	2	1	.....	.....	.....	.....	.....	255
25	.....	14	75	43	8	4	2	1	.....	.....	.....	.....	.....	147
30	.....	2	12	15	7	4	3	4	.....	.....	.....	.....	.....	47
35	.....	.....	4	3	8	5	6	2	2	.....	.....	.....	.....	30
40	.....	.....	.....	.....	2	5	4	1	1	.....	.....	.....	.....	13
45	.....	.....	.....	.....	1	.....	4	4	3	1	.....	.....	.....	13
50	.....	.....	.....	.....	.....	.....	.....	2	1	1	.....	.....	.....	4
55	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	1	.....	3	.....	.....	.....	4
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated	.....	3	3	1	1	.....	.....	.....	.....	.....	.....	.....	.....	8
Totals	9	195	218	110	42	20	22	16	8	7	.....	.....	.....	647

Marriages by Denominations in the Counties of Stormont, Dundas and Glengarry, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	15	9	12	4	.....	.....	1	.....	.....	.....	.....	1	42
Presbyterian	9	76	33	.....	4	.....	6	.....	.....	.....	.....	.....	128
Methodist	4	20	42	4	4	.....	2	.....	.....	.....	.....	.....	76
Roman Catholic	5	2	1	95	.....	.....	.....	.....	.....	.....	.....	.....	103
Baptist	1	1	2	.....	3	.....	.....	.....	.....	.....	.....	.....	7
Congregational	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	2
Lutheran	.....	.....	2	.....	.....	.....	3	.....	.....	.....	.....	.....	5
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	1	.....	1	.....	.....	.....	.....	.....	1	.....	3
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	34	109	93	103	12	.....	12	.....	.....	.....	2	1	366

Licenses, 307. Banns, 59.

Marriages by Ages in the Counties of Stormont, Dundas and Glengarry, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	9	65	19	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	97
20	.....	62	51	16	5	4	1	.....	.....	.....	.....	.....	.....	139
25	.....	8	29	19	13	1	2	.....	.....	.....	1	.....	.....	73
30	.....	2	6	9	5	1	1	1	.....	.....	.....	.....	.....	25
35	.....	.....	.....	2	4	3	2	2	.....	2	.....	.....	.....	15
40	.....	.....	.....	.....	.....	1	3	.....	1	1	.....	.....	.....	6
45	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	2
50	.....	.....	.....	.....	.....	.....	.....	.....	3	1	.....	1	.....	5
55	.....	.....	.....	.....	.....	.....	.....	.....	1	2	.....	1	.....	4
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.	9	137	105	50	28	10	10	3	5	6	1	2	.....	366

BRIDES.

Marriages by Denominations in the District of Sudbury, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	9	6	2	1	2								20
Presbyterian	5	15	1	3	1		1						26
Methodist		5	9	1									15
Roman Catholic	1	1	3	79							1		85
Baptist		1	2		4	1							8
Congregational													
Lutheran				1			26						27
Evangelical Association													
Hebrew									1				1
Salvation Army													
Others											1		1
No Denomination													
Total Grooms	15	28	17	85	7	1	27		1		2		183

Licenses, 150. Banns, 33.

Marriages by Ages in the District of Sudbury, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15		29	21	2										52
20	1	32	33	8	3		1		1					79
25		4	13	3	1		2	1						24
30			3	3	5	3	1							15
35				2	1	4								7
40			1		1		1							3
45							2							2
50									1					1
55														
60														
65														
70 & over														
Age not stated.														
Totals.	1	65	71	18	11	7	7	1	2					183

Marriages by Denominations in the District of Thunder Bay, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	57	7	9	3	3	1	.....	.....	.....	.....	1	.....	81
Presbyterian	12	53	12	1	6	2	2	.....	.....	.....	.....	.....	88
Methodist	11	9	28	3	.....	2	1	.....	.....	.....	.....	.....	54
Roman Catholic	3	3	4	80	1	.....	1	.....	.....	.....	.....	1	93
Baptist	3	3	2	1	11	.....	.....	.....	.....	.....	3	.....	23
Congregational	.....	.....	.....	.....	.. ...	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	1	2	2	1	.....	.....	105	.....	.....	.....	.....	.....	111
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	.....	.....	.. ...	.....	.....	.....	.....	.....	11	.....	11
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	87	77	57	89	21	5	109	.....	.....	.....	15	1	461

Licenses, 398. Banns, 63.

Marriages by Ages in the District of Thunder Bay, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	5	45	30	14	1	.....	.....	.....	.....	.....	.....	.....	.....	95
20	1	75	93	22	6	.....	.....	.....	.....	.....	.....	.....	.....	197
25	.....	23	51	24	7	.....	1	.....	.....	.....	.....	.....	.....	106
30	.....	3	8	12	5	2	.....	.....	.....	.....	.....	.....	.....	30
35	.....	.....	1	4	8	2	1	1	1	.....	.....	.....	.....	18
40	.....	.....	.....	1	2	1	2	.....	1	1	.....	.....	.....	8
45	.....	.....	.....	.. ..	1	.....	3	1	.....	.....	.....	.....	.....	5
50	.....	.....	..... .	.....	.....	... ..	.....	2	.....	.....	.....	.....	.....	2
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	..... .	.....	.....	.....	. ....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.. ...	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	6	146	183	77	30	5	7	4	2	1	.....	.....	.....	461

Marriages by Denominations in the County of Victoria, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	24	4	4	1	1	.....	.....	.....	.....	1	.....	.....	35
Presbyterian	4	19	11	1	.....	.....	.....	.....	.....	.....	2	.....	37
Methodist	12	9	73	.....	6	.....	.....	.....	.....	.....	2	.....	102
Roman Catholic	2	1	.....	17	1	.....	.....	.....	.....	.....	.....	.....	21
Baptist	2	2	3	.....	3	.....	.....	.....	.....	.....	.....	.....	10
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Others	.....	1	2	.....	.....	.....	.....	.....	.....	.....	3	.....	6
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	44	37	93	19	11	.....	.....	.....	.....	2	7	.....	213

Licenses, 200. Banns, 13.

Marriages by Ages in the County of Victoria, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	3	29	9	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	42
20	2	26	47	10	2	1	.....	.....	.....	.....	.....	.....	.....	88
25	.....	3	15	14	6	3	2	.....	.....	.....	.....	.....	.....	43
30	.....	.....	4	11	3	.....	1	.....	1	.....	1	.....	.....	21
35	.....	.....	.....	1	1	.....	.....	.....	1	.....	.....	.....	.....	3
40	.....	.....	.....	.....	2	1	1	1	2	1	.....	.....	.....	8
45	.....	.....	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	3
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Age not stated	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	3
Totals	5	59	76	37	14	5	5	2	5	2		.....	1	213

Marriages by Denominations in the County of Waterloo, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	55	3	5	3	4	.....	8	.....	.....	.....	1	.....	79
Presbyterian	6	63	7	1	3	.....	11	1	.....	.....	2	.....	94
Methodist	11	11	39	1	2	.....	6	2	.....	.....	2	.....	74
Roman Catholic	1	2	1	85	.....	.....	8	.....	.....	.....	1	.....	98
Baptist	1	3	3	.....	8	.....	3	.....	.....	.....	.....	.....	18
Congregational	1	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	3
Lutheran	5	7	14	4	2	.....	75	2	.....	.....	5	.....	114
Evangelical Association	.....	2	8	.....	1	.....	3	16	.....	.....	2	.....	32
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Salvation Army	.....	.....	1	.....	.....	.....	1	.....	.....	3	.....	.....	5
Others	1	4	5	3	1	.....	4	1	.....	.....	39	.....	58
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	81	95	83	97	21	2	119	22	1	3	52	.....	576

Licenses, 511. Banns, 65.

Marriages by Ages in the County of Waterloo, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	16	47	20	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	84
20	1	124	109	22	5	1	.....	.....	.....	.....	.....	.....	.....	262
25	.....	21	66	34	12	4	.....	.....	.....	.....	.....	.....	.....	137
30	.....	2	7	17	6	6	1	1	.....	.....	.....	.....	.....	40
35	.....	.....	2	3	7	2	1	.....	1	.....	.....	.....	.....	16
40	.....	.....	1	2	3	4	2	.....	3	.....	.....	.....	.....	15
45	.....	.....	.....	1	1	1	1	.....	3	1	.....	.....	.....	8
50	.....	.....	.....	.....	.....	.....	1	1	.....	1	1	.....	.....	4
55	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	2
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	5	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	7
Totals	17	199	206	81	34	18	6	3	8	2	1	1	.....	76

Marriages by Denominations in the County of Welland, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	116	32	40	28	18	6	16	2	2	.....	14	2	276
Presbyterian	38	104	35	26	12	2	12	.....	1	.....	8	1	229
Methodist	37	33	197	33	26	5	18	2	.....	.....	16	.....	367
Roman Catholic	33	34	34	191	18	2	18	3	.....	.....	34	10	377
Baptist	12	18	26	12	68	3	8	2	.....	.....	6	1	156
Congregational	3	3	8	3	2	10	3	.....	.....	.....	2	.....	34
Lutheran	23	14	22	29	16	.....	60	1	1	1	9	.....	176
Evangelical Association	1	1	5	1	.....	.....	3	7	.....	.....	1	.. ...	19
Hebrew	.....	.....	1	3	.....	.....	1	.....	4	.....	1	.....	10
Salvation Army	.....	.....	1	.....	.....	1	.....	.....	.....	2	.....	.....	4
Others	7	4	16	22	8	1	5	.....	.....	.....	82	2	147
No Denomination	.....	4	1	7	.....	.....	1	.....	.....	.....	.....	31	45
Total Grooms	260	247	386	355	168	30	145	17	8	3	174	47	1,840

Licenses, 1,811. Banns, 29.

Marriages by Ages in the County of Welland, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	No stated	Total
15	46	346	83	9	7	1	.....	1	.....	.....	.....	.....	.....	493
20	11	390	183	61	19	3	3	1	.....	1	.....	.....	.....	672
25	1	46	113	80	35	12	7	1	.....	.....	.....	.....	.....	295
30	.....	8	45	52	34	15	8	.....	.....	1	1	.....	.....	164
35	.....	.....	3	20	28	19	7	7	2	.....	1	1	.....	88
40	.....	1	1	3	10	19	9	5	6	1	.....	.....	.....	55
45	.....	.....	.....	1	2	8	10	11	4	2	.....	3	.....	41
50	.....	.....	.....	.....	.....	.....	2	5	1	1	.....	.....	.....	9
55	.....	.....	.....	.....	.....	.....	.....	2	5	3	2	1	.....	13
60	.....	.....	.....	.....	.....	.....	.....	.....	2	2	2	.....	.....	6
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Age not stated.	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	1	3
Totals	58	791	429	227	135	77	46	33	20	11	6	6	1	1,840

Marriages by Denominations in the County of Wellington, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	27	6	5	2	2	.....	.....	.....	.....	.....	.....	.....	42
Presbyterian	11	80	30	.....	1	1	2	.....	.....	1	1	.....	127
Methodist	8	25	76	1	1	.....	1	.....	.....	.....	4	.....	116
Roman Catholic	2	4	1	32	.....	.....	.....	.....	.....	.....	2	.....	41
Baptist	.....	5	4	1	5	1	.....	.....	.....	.....	1	.....	17
Congregational	1	2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	4
Lutheran	1	2	.....	.....	.....	.....	3	.....	.....	.....	.....	.....	6
Evangelical Association	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	.....	.....	4
Others	4	4	2	.....	.....	.....	.....	.....	.....	.....	10	.....	20
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	54	128	119	36	9	3	6	.....	.....	5	18	.....	378

Licenses, 349. Banns, 29.

Marriages by Ages in the County of Wellington, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	5	22	13	4	3	.....	.....	.....	.....	.....	.....	.....	.....	47
20	1	74	68	15	4	2	.....	.....	.....	.....	.....	.....	.....	164
25	.....	14	36	27	8	3	1	.....	.....	.....	.....	.....	.....	89
30	.....	.....	8	15	6	4	1	1	.....	.....	.....	.....	.....	35
35	.....	.....	.....	1	7	4	1	2	.....	1	2	.....	.....	18
40	.....	.....	.....	.....	2	1	4	2	.....	.....	.....	.....	.....	12
45	.....	.....	.....	.....	.....	1	.....	1	3	.....	.....	.....	.....	5
50	.....	.....	.....	.....	.....	.....	.....	2	1	.....	1	.....	.....	4
55	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	2
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	6	110	125	62	30	18	7	9	4	2	3	2	.....	378

BRIDES.

Marriages by Denominations in the County of Wentworth, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	239	33	42	12	18	8	2	.....	.....	1	5	1	361
Presbyterian	39	177	41	7	17	5	2	1	.....	.....	4	.....	293
Methodist	40	36	230	12	14	2	5	1	.....	1	4	1	346
Roman Catholic	13	11	12	151	4	1	1	.....	1	.....	6	2	202
Baptist	15	8	21	.....	52	4	2	.....	.....	.....	1	.....	103
Congregational	2	3	1	.....	1	10	.....	.....	.....	.....	1	.....	18
Lutheran	1	2	2	1	2	.....	14	.....	.....	.....	1	.....	23
Evangelical Association	.....	.....	.....	.....	.....	.....	1	2	.....	.....	1	.....	4
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	30	.....	.....	.....	30
Salvation Army	6	1	.....	.....	.....	.....	.....	.....	.....	12	.....	.....	19
Others	8	6	3	1	2	1	1	.....	.....	1	30	2	55
No Denomination	.....	1	3	1	1	.....	.....	.....	.....	.....	.....	4	10
Total Grooms	363	278	355	185	111	31	28	4	31	15	53	10	1,464

Licenses, 1,391. Banns, 73.

Marriages by Ages in the County of Wentworth, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	27	179	63	14	4	1	.....	.....	.....	.....	.....	.....	.....	288
20	8	299	211	45	8	2	1	1	.....	.....	.....	.....	.....	575
25	1	42	199	67	21	8	4	2	.....	.....	.....	.....	.....	344
30	.....	7	30	63	21	10	5	1	.....	2	.....	1	.....	140
35	.....	6	10	16	11	1	1	.....	1	.....	.....	.....	.....	46
40	.....	.....	1	1	6	12	6	5	2	.....	.....	1	.....	34
45	.....	.....	.....	.....	3	.....	3	4	.....	.....	1	.....	.....	11
50	.....	.....	.....	.....	.....	2	1	1	3	2	.....	.....	.....	9
55	.....	.....	.....	.....	.....	.....	.....	.....	2	1	2	.....	.....	5
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2
Age not stated.	.....	1	3	1	.....	1	.....	1	1	.....	.....	.....	.....	8
Totals	36	534	517	207	74	37	21	15	9	5	4	5	.....	1,464

BRIDES.

Marriages by Denominations in the County of York, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	1,550	243	218	60	74	10	7	1	2	2	18	2	2,187
Presbyterian	236	896	171	20	50	12	7	.....	1	.....	17	.....	1,410
Methodist	185	181	842	23	66	13	13	1	.....	.....	15	1	1,340
Roman Catholic	57	37	33	374	8	3	.....	.....	2	.....	13	2	529
Baptist	66	54	65	7	147	1	2	.....	.....	1	7	.....	350
Congregational	15	7	13	1	4	51	.....	.....	.....	.....	2	.....	93
Lutheran	15	4	5	4	3	.....	30	1	1	.....	3	.....	66
Evangelical Association	1	1	2	.....	.....	.....	.....	1	.....	.....	.....	.....	5
Hebrew	1	.....	.....	1	.....	.....	.....	.....	211	.....	1	.....	214
Salvation Army	4	3	.....	.....	.....	.....	.....	.....	.....	27	1	.....	35
Others	14	16	20	2	4	2	3	.....	.....	1	105	2	169
No Denomination	1	1	1	.....	2	.....	.....	.....	.....	.....	.....	15	20
Total Grooms	2,145	1,443	1,370	492	358	92	62	4	217	31	182	22	6,418

Licenses, 5,995. Banns, 423.

Marriages by Ages in the County of York, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	58	596	197	25	9	4	1	.....	.....	.....	.....	.....	.....	890
20	18	1,372	988	262	57	17	3	4	4	.....	1	.....	.....	2,726
25	1	283	858	357	128	26	9	5	1	2	.....	.....	.....	1,670
30	.....	30	151	229	104	49	22	11	.....	2	.....	.....	.....	598
35	.....	2	32	55	77	51	28	14	6	4	1	1	.....	271
40	.....	2	2	9	19	40	24	18	11	3	.....	1	.....	129
45	.....	.....	1	2	7	2	18	19	8	10	4	1	.....	72
50	.....	.....	.....	.....	.....	1	4	12	10	6	1	4	.....	38
55	.....	.....	.....	.....	.....	.....	1	2	1	9	.....	.....	.....	13
60	.....	.....	.....	.....	.....	.....	.....	.....	1	5	.....	1	.....	7
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	2
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Totals	77	2,285	2,220	939	401	190	110	86	42	41	7	10	1	6,418

Marriages by Denominations in the Cities of Ontario, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	2,499	452	447	163	146	32	44	2	6	4	65	7	3,867
Presbyterian	403	1,615	400	72	127	30	53	6	2	3	69	.....	2,780
Methodist	416	417	2,174	136	221	57	107	14	8	6	125	2	3,683
Roman Catholic	183	146	174	1,558	62	21	50	8	8	.....	90	8	2,308
Baptist	153	124	229	48	503	27	26	2	1	1	37	1	1,152
Congregational	31	20	44	9	16	108	9	1	.....	1	12	2	253
Lutheran	45	52	100	47	37	7	344	5	5	1	30	3	676
Evangelical Association	1	4	18	4	3	2	5	33	.....	.....	8	.....	78
Hebrew	2	.....	1	1	1	.....	.....	.....	297	.....	2	.....	307
Salvation Army	10	4	1	1	.....	.....	.....	.....	.....	55	8	6	85
Others	40	64	87	45	23	4	35	3	5	3	343	22	674
No Denomination	5	2	6	5	5	1	2	.....	.....	.....	.....	28	54
Total Grooms	3,788	2,900	3,681	2,092	1,144	289	675	74	332	74	789	79	15,917

Licenses, 15,063. Banns, 854.

Marriages by Ages in the Cities of Ontario, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	257	2,031	583	91	33	11	3	3	.....	.....	.....	.....	.....	3,012
20	59	3,305	2,158	560	153	41	14	8	4	1	1	.....	.....	6,304
25	4	567	1,766	798	311	86	37	15	3	2	2	1	.....	3,592
30	2	68	342	547	273	142	61	34	4	8	1	2	.....	1,484
35	.....	16	80	138	213	124	72	14	17	9	3	2	.....	718
40	.....	4	8	18	54	113	74	58	30	13	3	4	.....	379
45	.....	.....	3	7	18	29	50	50	30	18	6	1	.....	212
50	.....	.....	1	1	2	7	12	28	25	16	8	8	.....	108
55	.....	.....	.....	.....	.....	.....	5	6	13	20	3	1	.....	48
60	.....	.....	.....	.....	.....	.....	1	1	4	8	5	7	.....	26
65	.....	.....	.....	.....	.....	.....	.....	1	.....	1	2	5	.....	9
70 & over	.....	1	.....	.....	.....	.....	.....	1	.....	.....	.....	4	.....	6
Age not stated.	.....	2	3	5	2	1	.....	1	3	.....	.....	1	1	19
Totals	322	5,994	4,944	2,165	1,059	554	329	250	133	96	34	36	1	15,917

Marriages by Denominations in the City of Belleville, 1912.

Brides. / Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	16	5	6	1	1	.....	.....	.....	.....	.....	.....	.....	29
Presbyterian	2	12	3	1	.....	.....	.....	.....	.....	.....	.....	.....	18
Methodist	7	4	37	2	4	.....	.....	.....	.....	.....	1	.....	55
Roman Catholic	1	.....	2	11	.....	.....	.....	.....	.....	.....	.....	.....	14
Baptist	1	.....	1	.....	3	.....	.....	.....	.....	.....	.....	.....	5
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	3
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	27	21	49	15	8	.....	.....	.....	.....	3	1	.....	124

Licenses, 117. Banns, 7.

Marriages by Ages in the City of Belleville, 1912.

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	3	19	8	1	1	.....	.....	.....	.....	.....	.....	.....	.....	32
20	1	29	16	4	1	1	.....	.....	.....	.....	.....	.....	.....	52
25	.....	3	11	4	1	1	.....	.....	.....	.....	.....	.....	.....	20
30	.....	1	3	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	8
35	.....	.....	1	1	.....	2	1	1	.....	.....	.....	.....	.....	6
40	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
45	.....	.....	.....	.....	.....	1	.....	.....	1	1	.....	.....	.....	3
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	4	52	39	14	3	6	2	1	1	1	.....	1	.....	124

Marriages by Denominations in the City of Berlin, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	10	1	1	1	.....	.....	5	.....	.....	.....	1	.....	19
Presbyterian	.....	5	2	.....	.....	.....	3	1	.....	.....	.....	.....	11
Methodist	2	1	12	.....	1	.....	5	1	.....	.....	.....	.....	22
Roman Catholic	1	.....	.....	36	.....	.....	5	.....	.....	.....	1	.....	42
Baptist	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	1	2	5	2	1	.....	36	.....	.....	.....	3	.....	50
Evangelical Association	.....	1	2	.....	1	.....	2	9	.....	.....	1	.....	16
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2
Others	1	2	2	2	1	.....	3	.....	.....	.....	14	.....	25
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	15	12	24	41	4	.....	61	11	.....	2	20	.....	190

Licenses, 162. Banns, 28.

Marriages by Ages in the City of Berlin, 1912.

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	7	22	8	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	38
20	.....	42	38	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	84
25	.....	6	11	6	4	.....	.....	.....	.....	.....	.....	.....	.....	27
30	.....	2	4	10	4	4	.....	.....	.....	.....	.....	.....	.....	24
35	.....	.....	1	1	3	1	.....	.....	.....	.....	.....	.....	.....	
40	.....	.....	1	.....	.....	3	1	.....	.....	.....	.....	.....	.....	5
45	.....	.....	.....	1	.....	1	1	.....	1	.....	.....	.....	.....	4
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	7	73	63	23	11	9	2	.....	1	.....	.....	1	.....	190

Marriages by Denominations in the City of Brantford, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	56	7	9	3	5	1	.....	.....	.....	.....	2	.....	83
Presbyterian	6	17	4	3	4	1	.....	.....	.....	.....	.....	.....	35
Methodist	8	8	38	.....	4	1	.....	.....	.....	.....	1	.....	60
Roman Catholic	1	1	1	32	1	.....	1	.....	.....	.....	.....	.....	37
Baptist	5	5	13	1	32	4	.....	.....	.....	.....	.....	.....	60
Congregational	1	.....	.....	.....	1	2	.....	.....	.....	.....	.....	.....	4
Lutheran	.....	.....	1	.....	.....	.....	4	.....	.....	.....	.....	.....	5
Evangelical Association	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Salvation Army	.....	.....	1	.....	.....	.....	.....	.....	.....	1	1	.....	3
Others	1	.....	1	.....	.....	.....	.....	.....	.....	.....	11	.....	13
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	78	38	68	39	48	9	5	.....	1	1	15	.....	302

Licenses, 282. Banns, 20.

Marriages by Ages in the City of Brantford, 1912:

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	8	39	11	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	59
20	1	66	42	9	6	1	.....	.....	.....	.....	.....	.....	.....	125
25	.....	12	38	15	3	.....	.....	.....	.....	.....	.....	.....	.....	68
30	.....	.....	4	8	3	2	.....	.....	1	.....	.....	.....	.....	18
35	.....	1	1	1	2	3	1	4	.....	1	.....	1	.....	15
40	.....	.....	.....	1	.....	.....	.....	2	.....	.....	.....	.....	.....	3
45	.....	.....	.....	2	.....	.....	1	2	.....	.....	.....	.....	.....	5
50	.....	.....	.....	.....	.....	1	.....	1	1	1	1	.....	.....	5
55	.....	.....	.....	.....	.....	.....	.....	1	1	.....	1	.....	.....	3
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	9	118	96	37	14	7	2	10	3	2	3	1	.....	302

Marriages by Denominations in the City of Chatham, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	24	2	6	4	2						1		39
Presbyterian	3	10	5		2								20
Methodist	12	4	50	3	7	1	1		1				79
Roman Catholic	3		2	21									26
Baptist	2		6		9								17
Congregational													
Lutheran													
Evangelical Association											1		1
Hebrew													
Salvation Army										2			2
Others	1	2	2								2		7
No Denomination													
Total Grooms	45	18	71	28	20	1	1		1	2	4		191

Licenses, 181. Banns, 10.

Marriages by Ages in the City of Chatham, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	3	21	8											32
20	1	49	28	2	1									81
25		4	22	8	7		1		1					43
30			1	6	1	2	1							11
35				1	3	1	2		3					10
40					2	1	1							4
45						2		1	1					4
50									1					1
55									1	1				2
60														
65														
70 & over														
Age not stated.			1	1			1							3
Totals	4	74	60	18	14	6	6	1	7	1				191

Marriages by Denominations in the City of Fort William, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	29	2	5	1	3	.....	.....	.....	.....	.....	.....	.....	40
Presbyterian	4	24	10	1	4	.....	1	.....	.....	.....	.....	.....	44
Methodist	6	8	16	2	.....	1	1	.....	.....	.....	.....	.....	34
Roman Catholic	3	2	1	37	1	.....	.....	.....	.....	.....	.....	.....	47
Baptist	1	1	1	1	6	.....	.....	.....	.....	.....	2	.....	12
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	.....	2	1	.....	.....	.....	20	.....	.....	.....	.....	.....	23
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	5
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	43	39	37	42	14	1	22	.....	.....	.....	7	.....	205

Licenses, 178. Banns, 27.

Marriages by Ages in the City of Fort William, 1912.

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	2	25	15	6	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
20	.....	31	41	8	1	.....	.....	.....	.....	.....	.....	.....	.....	81
25	.....	9	27	10	1	.....	.....	.....	.....	.....	.....	.....	.....	47
30	.....	1	6	5	2	2	.....	.....	.....	.....	.....	.....	.....	16
35	.....	.....	1	1	3	.....	.....	1	.....	.....	.....	.....	.....	6
40	.....	.....	.....	1	1	.....	2	.....	.....	.....	.....	.....	.....	4
45	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....	.....	3
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	2	66	90	31	9	3	3	1	.....	.....	.....	.....	.....	205

Marriages by Denominations in the City of Guelph, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	21	2	4	2	2	.....	.....	.....	.....	.....	.....	.....	31
Presbyterian	6	15	7	.....	1	.....	2	.....	.....	1	.....	.....	32
Methodist	2	7	15	1	1	.....	.....	.....	.....	.....	3	.....	29
Roman Catholic	2	2	1	13	.....	.....	.....	.....	.....	.....	1	.....	19
Baptist	.....	1	2	.....	2	1	.....	.....	.....	.....	.....	.....	6
Congregational	1	2	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	4
Lutheran	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	3
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	32	29	29	16	6	2	4	.....	.....	2	7	.....	127

Licenses, 119. Banns, 8.

Marriages by Ages in the City of Guelph, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	2	11	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	16
20	.....	38	19	4	1	.....	.....	.....	.....	.....	.....	.....	.....	62
25	.....	5	9	7	.....	1	.....	.....	.....	.....	.....	.....	.....	22
30	.....	.....	2	2	3	1	.....	.....	.....	.....	.....	.....	.....	8
35	.....	.....	.....	1	2	1	.....	2	.....	.....	2	.....	.....	8
40	.....	.....	.....	.....	.....	.....	3	2	.....	.....	.....	.....	.....	5
45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50	.....	.....	.....	.....	.....	.....	.....	2	1	.....	1	.....	.....	4
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	2	4	33	14	6	3	3	6	1	1	3	1	.....	127

Marriages by Denominations in the City of Hamilton, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	226	30	39	11	14	6	2	.....	.....	1	5	1	335
Presbyterian	34	154	30	6	16	3	2	1	.....	.....	4	.....	250
Methodist	35	32	181	12	12	2	4	.....	.....	1	4	1	284
Roman Catholic	13	10	11	145	3	1	1	.....	1	.....	6	2	193
Baptist	14	7	20	.....	51	4	2	.....	.....	.....	1	.....	99
Congregational	2	3	1	.....	1	8	.....	.....	.....	.....	1	.....	16
Lutheran	1	2	2	.....	2	.....	13	.....	.....	.....	1	.....	21
Evangelical Association	.....	.....	.....	.....	.....	.....	1	2	.....	.....	1	.....	4
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	30	.....	.....	.....	30
Salvation Army	5	1	.....	.....	.....	.....	.....	.....	.....	10	.....	.....	16
Others	7	6	2	1	2	1	1	.....	.....	1	30	1	52
No Denomination	.....	.....	1	1	1	.....	.....	.....	.....	.....	.....	3	6
Total Grooms	337	245	287	176	102	25	26	3	31	13	53	8	1,306

Licenses, 1,237. Banns, 69.

Marriages by Ages in the City of Hamilton, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	Total.
15	24	165	57	10	2	1	.....	.....	.....	.....	.....	.....	.....	259
20	5	277	187	42	5	2	1	1	.....	.....	.....	.....	.....	520
25	1	38	169	65	19	7	4	2	.....	.....	.....	.....	.....	305
30	.....	5	30	54	17	9	5	1	.....	2	.....	1	.....	124
35	.....	6	10	16	9	1	1	.....	.....	1	.....	.....	.....	44
40	.....	.....	1	1	4	10	6	5	2	.....	.....	1	.....	30
45	.....	.....	.....	.....	3	.....	2	3	.....	.....	.....	.....	.....	8
50	.....	.....	.....	.....	.....	2	1	.....	3	2	.....	.....	.....	8
55	.....	.....	.....	.....	.....	.....	.....	.....	1	1	1	.....	.....	3
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Age not stated.	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	3
Totals	30	491	455	188	59	33	20	12	7	6	1	4	.....	1,306

BRIDES.

Marriages by Denominations in the City of Kingston, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	64	10	13	6	5	.....	.....	.....	.....	.....	.....	.....	98
Presbyterian	4	29	6	.....	.....	1	.....	.....	.....	.....	3	.....	43
Methodist	10	16	62	4	3	.....	1	.....	.....	.....	.....	.....	96
Roman Catholic	5	3	3	32	1	1	.....	.....	.....	.....	4	.....	49
Baptist	1	1	3	.....	3	.....	1	.....	.....	.....	1	.....	10
Congregational	1	.....	3	.....	1	.....	.....	.....	.....	.....	.....	.....	5
Lutheran	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	2
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2
Others	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	2	.....	3
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Total Grooms	85	59	91	43	13	2	3	.....	1	2	10	1	310

Licenses, 308. Banns, 2.

Marriages by Ages in the City of Kingston, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	6	44	17	1	.....	.....	1	.....	.....	.....	.....	.....	.....	69
20	1	61	44	13	4	.....	.....	.....	.....	.....	.....	.....	.....	123
25	.....	6	30	12	5	10	.....	.....	.....	.....	.....	.....	.....	63
30	.....	3	6	8	6	3	3	1	1	.....	.....	.....	.....	31
35	.....	.....	.....	2	4	2	3	.....	.....	.....	.....	.....	.....	11
40	.....	.....	.....	.....	.....	2	3	1	1	.....	.....	.....	.....	7
45	.....	.....	.....	.....	.....	.....	1	1	1	1	.....	.....	.....	4
50	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	2
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	7	114	97	36	19	18	11	3	4	1	.....	.....	.....	310

Marriages by Denominations in the City of London, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	108	25	26	4	5	1	.....	.....	.....	.....	3	1	173
Presbyterian	14	65	24	.....	10	2	2	.....	.....	1	1	.....	119
Methodist	29	23	114	1	14	3	1	.....	1	.....	3	.....	189
Roman Catholic	6	3	2	51	.....	1	1	.....	.....	.....	3	.....	67
Baptist	19	10	16	1	33	1	.....	.....	.....	.....	1	.....	81
Congregational	1	.....	2	1	.....	1	.....	.....	.....	1	.....	.....	6
Lutheran	1	.....	.....	.....	1	.....	2	.....	.....	.....	.....	.....	4
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	7	.....	.....	.....	7
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	3
Others	4	2	4	.....	.....	.....	1	.....	.....	.....	16	.....	27
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	182	128	188	58	63	9	7	.....	8	5	27	1	676

Licenses, 647. Banns, 29.

Marriages by Ages in the City of London, 1912.

GROOMS.

Brides / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	9	69	21	7	2	1	.....	1	.....	.....	.....	.....	.....	110
20	2	152	94	26	6	2	.....	.....	.....	.....	.....	.....	.....	282
25	.....	30	72	29	13	3	1	.....	.....	.....	1	.....	.....	149
30	.....	4	14	32	18	2	6	1	.....	.....	.....	.....	.....	77
35	.....	1	2	3	5	6	4	3	.....	1	.....	.....	.....	25
40	.....	.....	.....	.....	1	7	2	2	3	1	.....	.....	.....	16
45	.....	.....	.....	.....	.....	.....	1	3	1	1	.....	.....	.....	6
50	.....	.....	.....	.....	1	.....	.....	1	2	1	.....	.....	.....	5
55	.....	.....	.....	.....	.....	.....	1	.....	.....	1	1	.....	.....	3
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	2
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	11	256	203	97	46	21	15	11	6	7	3	.....	.....	676

Marriages by Denominations in the City of Niagara Falls, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	44	15	20	10	6	2	7	.....	1	.....	7	1	113
Presbyterian	16	59	20	11	6	1	7	.....	.....	.....	6	.....	126
Methodist	23	19	119	14	18	3	10	1	.....	.....	14	.....	221
Roman Catholic	10	19	17	60	9	1	4	1	.....	.....	8	3	132
Baptist	4	6	14	7	41	2	1	1	.....	.....	1	.....	77
Congregational	.....	1	7	2	2	7	1	.....	.....	.....	1	.....	21
Lutheran	9	9	14	7	8	.....	18	1	.....	1	3	.....	70
Evangelical Association	.....	.....	2	1	.....	.....	1	4	.....	.....	.....	.....	8
Hebrew	.....	.....	.....	2	.....	.....	.....	.....	1	.....	.....	.....	3
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Others	2	2	7	12	2	1	1	.....	.....	.....	27	1	55
No Denomination	.....	1	.....	4	.....	.....	.....	.....	.....	.....	.....	7	12
Total Grooms	108	131	220	130	92	17	50	8	2	2	67	12	839

Licenses, 832. Banns, 7.

Marriages by Ages in the City of Niagara Falls, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not sta ed	Total
15	25	159	37	4	6	1	.....	1	.....	.....	.....	.....	.....	233
20	3	167	75	26	8	2	2	1	.....	.....	.....	.....	.....	284
25	.....	20	59	37	22	6	2	1	.....	.....	.....	.....	.....	147
30	.....	2	22	22	18	10	3	.....	.....	1	1	.....	.....	79
35	.....	.....	1	9	8	8	3	3	2	.....	.....	.....	.....	34
40	.....	.....	.....	2	4	9	3	3	2	1	.....	.....	.....	24
45	.....	.....	.....	1	1	4	5	7	3	1	.....	1	.....	23
50	.....	.....	.....	.....	.....	.....	1	3	1	.....	.....	.....	.....	5
55	.....	.....	.....	.....	.....	.....	.....	1	3	1	.....	.....	.....	5
60	.....	.....	.....	.....	.....	.....	.....	.....	1	1	2	.....	.....	4
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Totals	28	348	194	101	67	40	19	20	12	5	3	1	1	839

BRIDES.

Marriages by Denominations in the City of Ottawa, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	126	42	21	14	4	3	3	.....	.....	1	3	.....	217
Presbyterian	28	107	22	9	6	1	1	.....	.....	.....	3	.....	177
Methodist	19	20	77	3	6	.....	1	.....	.....	1	2	.....	129
Roman Catholic	32	17	6	396	4	1	4	.....	.....	.....	9	.....	469
Baptist	6	3	5	.....	10	.....	.....	.....	.....	.....	1	.....	25
Congregational	1	1	1	.....	1	8	.....	.....	.....	.....	.....	.....	12
Lutheran	2	1	5	1	.....	.....	13	.....	.....	.....	.....	.....	22
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	10	.....	.....	.....	10
Salvation Army	.....	1	.....	.....	.....	.....	.....	.....	1	.....	6	.....	8
Others	1	2	.....	2	.....	.....	.....	.....	1	.....	14	.....	20
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	215	194	137	425	31	13	22	.....	12	2	38	.....	1,089

Licenses, 955. Banns, 134.

Marriages by Ages in the City of Ottawa, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	8	106	44	6	4	.....	.....	.....	.....	.....	.....	.....	.....	168
20	6	232	157	43	12	6	.....	.....	.....	.....	.....	.....	.....	456
25	.....	34	134	74	27	7	3	1	.....	.....	.....	.....	.....	280
30	2	2	20	29	13	9	4	5	.....	1	.....	.....	.....	85
35	.....	2	4	4	14	6	9	4	.....	1	.....	.....	.....	44
40	.....	.....	.....	1	5	7	3	4	2	1	1	.....	.....	24
45	.....	.....	.....	1	1	1	4	1	3	1	.....	.....	.....	12
50	.....	.....	.....	.....	.....	.....	.....	.....	2	1	1	2	.....	6
55	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	1	.....	.....	3
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	2	2	2	1	.....	.....	.....	1	.....	.....	1	.....	9
Totals	16	378	361	160	77	36	23	15	10	5	3	5	.....	1,089

Marriages by Denominations in the City of Peterboro', 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	37	10	10	.....	4	.....	.....	.....	.....	.....	1	.....	62
Presbyterian	6	28	11	.....	5	.....	.....	.....	.....	.....	.....	.....	50
Methodist	12	10	37	.....	4	1	.....	.....	.....	1	2	.....	67
Roman Catholic	1	1	3	42	.....	.....	.....	.....	.....	.....	.....	.....	47
Baptist	1	4	2	.....	10	.....	.....	.....	.....	.....	.....	.....	17
Congregational	.....	1	.....	.....	.....	3	.....	.....	.....	.....	.....	.....	4
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	57	54	63	42	23	4	.....	.....	1	3	4	.....	251

Licenses, 224. Banns, 27.

Marriages by Ages in the City of Peterboro', 1912.

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	2	31	9	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	43
20	1	50	36	10	3	.....	1	.....	.....	.....	.....	.....	.....	101
25	.....	7	35	12	8	1	1	.....	.....	.....	.....	.....	.....	64
30	.....	.....	6	9	5	3	2	.....	.....	.....	.....	.....	.....	25
35	.....	1	.....	2	2	2	3	.....	.....	.....	.....	.....	.....	10
40	.....	.....	.....	.....	1	1	1	1	.....	.....	.....	.....	.....	4
45	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	.....	2
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
Totals	3	89	86	33	20	9	8	1	1	1	.....	.....	.....	251

Marriages by Denominations in the City of Port Arthur, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	23	2	4	2	.....	1	.....	.....	.....	.....	1	.....	33
Presbyterian	10	24	2	.....	1	2	1	.....	.....	.....	.....	.....	40
Methodist	4	1	11	2	.....	1	.....	.....	.....	.....	.....	.....	19
Roman Catholic	.....	1	.....	41	.....	.....	1	.....	.....	.....	.....	.....	43
Baptist	2	1	1	.....	4	.....	.....	.....	.....	.....	1	.....	9
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	1	.....	1	1	.....	.....	85	.....	.....	.....	.....	.....	88
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	40	29	19	46	5	4	87	.....	.....	.....	4	.....	234

Licenses, 212. Banns, 22.

Marriages by Ages in the City of Port Arthur, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	1	21	13	6	1	.....	.....	.....	.....	.....	.....	.....	.....	42
20	.....	41	51	12	5	.....	.....	.....	.....	.....	.....	.....	.....	109
25	.....	13	22	12	5	.....	1	.....	.....	.....	.....	.....	.....	53
30	.....	1	2	6	3	.....	.....	.....	.....	.....	.....	.....	.....	12
35	.....	.....	.....	3	5	2	1	.....	1	.....	.....	.....	.....	12
40	.....	.....	.....	.....	1	.....	.....	.....	1	1	.....	.....	.....	3
45	.....	.....	.....	.....	.....	.....	2	1	.....	.....	.....	.....	.....	3
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	1	76	88	39	20	2	4	1	2	1	.....	.....	.....	234

BRIDES.

Marriages by Denominations in the City of St. Catharines, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	49	5	7	3	1	.....	.....	.....	.....	.....	2	.....	67
Presbyterian	4	18	6	.....	3	.....	.....	.....	.....	.....	1	.....	32
Methodist	3	6	22	.....	4	.....	.....	.....	.....	.....	.....	.....	35
Roman Catholic	3	2	1	22	.....	1	.....	.....	.....	.....	1	.....	30
Baptist	3	2	2	2	8	.....	.....	.....	.....	.....	.....	.....	17
Congregational	1	.....	2	.....	.....	2	.....	.....	.....	.....	.....	.....	5
Lutheran	1	1	1	.....	.....	.....	1	.....	.....	.....	.....	.....	4
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	3
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Others	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	3
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	64	35	41	27	16	3	1	.....	3	1	6	.....	197

Licenses. 180. Banns. 17.

Marriages by Ages in the City of St. Catharines, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	1	25	10	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	38
20	.....	30	29	9	1	.....	.....	.....	.....	1	.....	.....	.....	70
25	.....	5	30	11	2	2	.....	.....	.....	.....	.....	.....	.....	50
30	.....	3	3	5	4	3	.....	.....	.....	.....	.....	1	.....	19
35	.....	.....	1	2	4	5	1	.....	.....	.....	.....	.....	.....	13
40	.....	.....	.....	.....	.....	1	2	1	.....	.....	.....	.....	.....	4
45	.....	.....	.....	.....	.....	1	.....	.....	2	.....	.....	.....	.....	3
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	1	63	73	29	11	12	3	1	2	1	.....	1	.....	197

Marriages by Denominations in the City of St. Thomas, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	24	.....	6	.....	4	.....	.....	.....	.....	.....	1	.....	35
Presbyterian	5	21	2	.....	2	.....	.....	1	.....	.....	1	.....	32
Methodist	5	9	36	1	4	1	2	.....	.....	.....	2	.....	60
Roman Catholic	2	.....	1	7	.....	.....	.....	.....	.....	.....	1	.....	11
Baptist	8	3	7	1	15	.....	1	.....	.....	.....	1	.....	36
Congregational	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Lutheran	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Evangelical Association	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	2
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Others	.....	3	2	.....	3	.....	.....	.....	.....	1	1	.....	10
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	44	37	55	9	28	2	3	1	2	2	7	.....	190

Licenses, 190. Banns, ...

Marriages by Ages in the City of St. Thomas, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	2	36	10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	48
20	.....	42	23	5	.....	2	.....	.....	.....	.....	.....	.....	.....	72
25	.....	7	14	7	3	.....	.....	.....	1	.....	1	.....	.....	33
30	.....	1	4	7	2	3	1	1	.....	.....	.....	.....	.....	19
35	.....	1	2	.....	2	2	2	.....	.....	.....	.....	.....	.....	9
40	.....	.....	.....	.....	1	1	2	.....	.....	.....	.....	.....	.....	4
45	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	2
50	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	2
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	2	87	53	19	8	9	5	2	1	1	2	1	.....	190

Marriages by Denominations in the City of Stratford, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	26	2	3	.....	.....	.....	1	1	.....	.....	.....	.....	33
Presbyterian	4	17	4	.....	3	.....	2	.....	.....	.....	.....	.....	30
Methodist	.....	3	13	.....	.....	1	2	1	.....	.....	.....	.....	20
Roman Catholic	3	1	1	21	.....	.....	.....	.....	.....	.....	.....	.....	26
Baptist	2	3	.....	.....	3	1	.....	.....	.....	.....	.....	.....	9
Congregational	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Lutheran	2	.....	1	.....	.....	1	6	.....	.....	.....	.....	.....	10
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	.....	.....	3
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	1	1	.....	.....	.....	.....	.....	.....	.....	3	.....	5
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	38	27	24	21	6	3	11	5	.....	.....	3	.....	138

Licenses, 125. Banns, 13.

Marriages by Ages in the City of Stratford, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	not stated	Total
15	.....	11	8	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	20
20	1	20	19	4	3	1	.....	.....	.....	.....	.....	.....	.....	48
25	.....	8	19	14	1	2	.....	.....	.....	.....	.....	.....	.....	44
30	.....	.....	1	4	2	.....	.....	3	.....	.....	.....	.....	.....	10
35	.....	.....	1	4	4	.....	.....	1	.....	.....	.....	.....	.....	10
40	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2
45	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	2
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	1	39	48	27	10	4	1	6	1	.....	1	.....	.....	138

Marriages by Denominations in the City of Toronto, 1912.

Grooms \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	1,487	235	205	58	70	10	7	1	2	2	17	2	2,096
Presbyterian	220	843	161	20	47	12	6	.....	1	.....	15	.....	1,325
Methodist	171	164	724	22	59	13	13	1	.....	.....	10	1	1,178
Roman Catholic	54	37	31	369	8	3	.....	.....	2	.....	13	2	519
Baptist	62	52	58	7	134	1	2	.....	.....	1	7	.....	324
Congregational	15	7	11	1	4	48	.....	.....	.....	.....	2	.....	88
Lutheran	15	4	4	4	3	.....	29	1	1	.....	3	.....	64
Evangelical Association	1	1	2	.....	.....	.....	.....	1	.....	.....	.....	.....	5
Hebrew	1	.....	.....	1	.....	.....	.....	.....	211	.....	1	.....	214
Salvation Army	4	2	.....	.....	.....	.....	.....	.....	.....	26	1	.....	33
Others	13	15	17	2	4	1	2	.....	.....	1	85	2	142
No Denomination	1	1	1	.....	1	.....	.....	.....	.....	.....	.....	15	19
Total Grooms	2,044	1,361	1,214	384	330	88	59	4	217	30	154	22	6,007

Licenses, 5,593. Banns, 414.

Marriages by Ages in the City of Toronto, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	56	557	180	25	7	4	1	.....	.....	.....	.....	.....	.....	830
20	18	1,294	919	243	54	15	3	4	4	.....	1	.....	.....	2,555
25	1	262	808	334	119	23	9	5	1	2	.....	.....	.....	1,564
30	.....	28	146	211	100	48	22	11	.....	2	.....	.....	.....	568
35	.....	2	30	52	72	48	22	14	6	4	1	.....	.....	251
40	.....	2	2	8	17	39	21	18	10	3	.....	1	.....	121
45	.....	.....	1	2	7	2	17	16	8	8	3	.....	.....	64
50	.....	.....	.....	.....	.....	.....	3	12	9	5	1	4	.....	34
55	.....	.....	.....	.....	.....	.....	.....	2	1	8	.....	.....	.....	11
60	.....	.....	.....	.....	.....	.....	.....	.....	1	4	.....	1	.....	6
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	2
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	75	2,145	2,086	875	376	179	98	83	40	36	6	8	.....	6,007

Marriages by Denominations in the City of Windsor, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	114	52	59	43	17	8	19	.....	3	.....	20	2	337
Presbyterian	30	153	76	21	16	8	25	3	1	1	35	.....	369
Methodist	66	79	587	69	78	28	66	9	6	3	83	.....	1,074
Roman Catholic	43	47	85	215	35	12	33	7	5	.....	43	1	526
Baptist	20	23	77	28	133	13	17	1	1	.....	21	1	335
Congregational	7	5	15	5	6	27	8	1	.....	.....	8	2	84
Lutheran	12	31	63	32	22	6	114	3	4	.....	20	3	310
Evangelical Association	.....	2	11	3	1	2	1	14	.....	.....	5	.....	39
Hebrew	1	.....	1	1	1	.....	.....	.....	30	.....	1	.....	35
Salvation Army	1	.....	1	.....	.....	.....	.....	.....	.....	.....	3	.....	5
Others	10	27	48	25	11	1	27	3	4	.....	139	4	299
No Denomination	4	.....	4	.....	3	1	2	.....	.....	.....	2	.....	16
Total Grooms	308	419	1,027	442	323	106	312	41	54	4	380	13	3,429

Licenses, 3,412. Banns, 17.

Marriages by Ages in the City of Windsor, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	86	666	130	21	8	4	1	1	.....	.....	.....	.....	.....	917
20	19	660	326	93	41	9	7	2	.....	.....	.....	.....	.....	1,157
25	2	94	235	136	71	23	15	6	.....	.....	.....	1	.....	583
30	.....	14	69	124	64	40	11	10	2	2	.....	.....	.....	336
35	.....	2	21	32	72	31	20	10	6	.....	.....	1	.....	195
40	.....	2	4	4	17	31	23	17	8	6	2	2	.....	116
45	.....	.....	1	1	4	14	13	12	10	4	2	.....	.....	61
50	.....	.....	1	1	1	2	7	8	4	6	4	2	.....	36
55	.....	.....	.....	.....	.....	.....	2	2	2	6	.....	.....	.....	12
60	.....	.....	.....	.....	.....	.....	1	1	2	2	1	4	.....	11
65	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1	1	.....	3
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Age not stated.	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Totals	107	1,438	787	413	278	154	100	70	34	26	10	12	.....	3,429

BRIDES.

Marriages by Denominations in the City of Woodstock, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	15	5	3	.....	3	.....	.....	.....	.....	1	.....	.....	27
Presbyterian	7	14	5	.....	1	.....	.....	.....	.....	.....	.....	.....	27
Methodist	2	3	23	.....	2	1	.....	1	.....	.....	.....	.....	32
Roman Catholic	.....	.....	3	7	.....	.....	.....	.....	.....	.....	.....	.....	10
Baptist	2	2	1	.....	6	.....	.....	.....	.....	.....	.....	.....	11
Congregational	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2
Others	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	26	25	37	7	12	1	.....	1	.....	3	.....	.....	112

Licenses, 109. Banns, 3

Marriages by Ages in the City of Woodstock, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	1	7	1	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	10
20	.....	24	14	3	1	.....	.....	.....	.....	.....	.....	.....	.....	42
25	.....	4	21	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	30
30	.....	1	3	5	3	.....	1	1	.....	.....	.....	.....	.....	14
35	.....	.....	1	1	2	4	.....	.....	.....	1	.....	.....	.....	9
40	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	2
45	.....	.....	.....	.....	.....	.....	2	1	.....	.....	.....	.....	.....	3
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Totals	1	36	40	15	7	4	5	2	1	1	.....	.....	.....	112

Marriages by Denominations in the Towns of Ontario, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	247	53	56	11	18	.....	7	1	2	2	2	.....	399
Presbyterian	47	268	69	9	12	3	3	.....	.....	.....	7	.....	418
Methodist	57	68	367	13	27	3	3	3	.....	1	10	.....	552
Roman Catholic	18	91	9	286	6	.....	1	.....	.....	1	4	.....	346
Baptist	15	21	26	3	45	2	4	.....	.....	.....	4	.....	120
Congregational	4	.....	4	1	.....	3	.....	.....	.....	.....	3	.....	15
Lutheran	4	2	8	4	3	.....	40	.....	.....	.....	2	.....	63
Evangelical Association	.....	.....	1	.....	.....	.....	2	1	.....	.....	.....	.....	4
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	7	.....	.....	.....	7
Salvation Army	.....	.....	5	.....	.....	1	1	.....	.....	9	.....	.....	16
Others	1	4	11	8	1	1	.....	.....	.....	.....	46	.....	72
No Denomination.	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	4	6
Total Grooms	393	437	557	335	113	13	61	5	9	13	78	4	2,018

Licenses. 1.876. Banns. 142.

Marriages by Ages in the Towns of Ontario, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	25	303	101	20	4	.....	.....	.....	.....	.....	.....	.....	.....	453
20	8	386	296	95	28	5	3	.....	.....	1	.....	.....	.....	823
25	1	51	162	129	35	20	3	1	.....	.....	.....	.....	.....	402
30	.....	8	28	55	23	11	6	1	2	.....	1	.....	.....	135
35	.....	3	11	12	19	8	9	7	2	1	1	1	.....	74
40	.....	.....	.....	5	7	13	11	6	3	3	.....	.....	.....	48
45	.....	.....	.....	1	4	6	6	6	5	.....	1	.....	.....	29
50	.....	.....	1	.....	1	2	4	3	2	4	3	.....	.....	20
55	.....	.....	.....	.....	.....	.....	.....	2	3	3	.....	.....	.....	8
60	.....	.....	.....	.....	.....	.....	.....	1	1	3	1	1	.....	7
65	.....	.....	.....	.....	.....	.....	.....	1	.....	1	1	.....	.....	3
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	2
Age not stated.	.....	8	2	1	2	1	.....	.....	.....	.....	.....	.....	.....	14
Totals	34	760	601	318	123	66	42	28	19	16	8	2	1	2,018

Marriages by Denominations in the Town of Barrie, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	9	5	5	.....	1	.....	.....	.....	.....	.....	.....	.....	20
Presbyterian	2	24	3	.....	.....	.....	.....	.....	.....	.....	1	.....	30
Methodist	2	5	14	.....	1	.....	.....	.....	.....	.....	.....	.....	22
Roman Catholic	.....	2	.....	7	.....	.....	.....	.....	.....	.....	.....	.....	9
Baptist	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	2
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	1	.....	.....	.....	.....	.....	.....	1	.....	.....	2
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	13	36	23	8	2	1	.....	.....	.....	1	1	.....	85

Licenses, 83. Banns, 2.

Marriages by Ages in the Town of Barrie, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	.....	16	4	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	21
20	.....	13	11	3	1	1	.....	.....	.....	.....	.....	.....	.....	29
25	.....	3	10	8	.....	1	.....	1	.....	.....	.....	.....	.....	23
30	.....	.....	2	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
35	.....	.....	1	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	3
40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
45	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	2
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	2
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Totals	.....	33	28	13	2	2	.....	3	3	1	.....	.....	.....	85

Marriages by Denominations in the Town of Brockville, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	20	10	6	1	2	.....	1	.....	.....	.....	.....	.....	40
Presbyterian	2	13	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	19
Methodist	3	4	31	.....	2	1	.....	.....	.....	.....	1	.....	42
Roman Catholic	2	2	.....	18	.....	.....	.....	.....	.....	.....	.....	.....	22
Baptist	1	2	2	.....	2	.....	.....	.....	.....	.....	.....	.....	7
Congregational	1	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	3
Lutheran	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	2
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	29	31	44	19	6	3	1	.....	.....	.....	3	.....	136

Licenses, 126. Banns, 10.

Marriages by Ages in the Town of Brockville, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	2	20	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	27
20	1	26	16	3	4	.....	1	.....	.....	.....	.....	.....	.....	51
25	.....	8	13	11	2	.....	.....	.....	.....	.....	.....	.....	.....	34
30	.....	1	2	5	1	1	.....	.....	.....	.....	.....	.....	.....	10
35	.....	.....	.....	1	2	.....	.....	.....	.....	.....	.....	.....	.....	3
40	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	2
45	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	2
50	.....	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	2
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	2
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2
Totals	3	56	36	20	10	3	3	.....	1	3	1	.....	.....	136

BRIDES.

Marriages by Denominations in the Town of Cobalt, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	12		1										13
Presbyterian		9	1	1									11
Methodist	1		2										3
Roman Catholic				18									18
Baptist	5	1	1		1								8
Congregational													
Lutheran					1		7						8
Evangelical Association													
Hebrew									1				1
Salvation Army										1			1
Others													
No Denomination													
Total Grooms	18	10	5	19	2		7		1	1			63

Licenses. 56. Banns. 7.

Marriages by Ages in the Town of Cobalt, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	1	8	7	2										18
20		12	10	1										23
25		6	8	4	1									19
30				1		1								2
35														
40				1										1
45														
50														
55														
60														
65														
70 & over														
Age not stated.														
Totals	1	26	25	9	1	1								

Marriages by Denominations in the Town of Cobourg, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	7	2	5										14
Presbyterian	2	9	2			1							14
Methodist	1	3	7							1			12
Roman Catholic		1	1	4	1								7
Baptist	1				2								3
Congregational													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Others			1										1
No Denomination													
Total Grooms	11	15	16	4	3	1				1			51

Licenses, 51. Banns, ..

Marriages by Ages in the Town of Cobourg, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15		9	1											10
20		15	5	2	2		1			1				26
25			2											2
30					2									2
35		1					2	3			1			7
40							1	1						2
45														
50														
55								1	1					2
60														
65														
70 & over														
Age not stated														
Totals		25	8	2	4		4	5	1	1	1			51

Marriages by Denominations in the Town of Collingwood, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	5	4	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	10
Presbyterian	1	17	1	.....	1	.....	1	.....	.....	.....	1	.....	22
Methodist	.....	1	12	.....	1	.....	.....	.....	.....	.....	.....	.....	14
Roman Catholic	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Baptist	1	1	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	5
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2
Others'	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	3	.....	4
No Denomination.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	7	23	17	1	3	.....	1	.....	.....	2	4	.....	58

Licenses. 58. Banns. ..

Marriages by Ages in the Town of Collingwood, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	1	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
20	.....	14	8	6	2	.....	.....	.....	.....	.....	.....	.....	.....	30
25	.....	2	7	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	14
30	.....	1	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....	4
35	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	2
40	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Totals	1	18	20	13	3	.....	1	1	.....	.....	1	.....	.....	58

Marriages by Denominations in the Town of Cornwall, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	7		3	3			1						14
Presbyterian	2	12	1		1		1						17
Methodist	2		5	1									8
Roman Catholic	4			15									19
Baptist	1												1
Congregational											1		1
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Others			1										1
No Denomination													
Total Grooms	16	12	10	19	1		2				1		61

Licenses, 59. Banns, 2.

Marriages by Ages in the Town of Cornwall, 1912.

GROOMS.

Brides. / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	2	10	4											16
20		12	12	2	1									27
25		1	6	5	2									14
30		1			1									2
35				1										1
40										1				1
45														
50														
55														
60														
65														
70 & ov r														
Age not stated.														
Totals	2	24	22	8	4					1				61

Marriages by Denominations in the Town of Galt, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	23	1	1	1	1	.....	1	.....	.....	.....	.....	.....	28
Presbyterian	3	29	2	.....	1	.....	1	.....	.....	.....	1	.....	37
Methodist	3	2	11	1	1	.....	1	.....	.....	.....	2	.....	21
Roman Catholic	.....	.....	.....	9	.....	.....	.....	.....	.....	.....	.....	.....	9
Baptist	.....	3	1	.....	2	.....	.....	.....	.....	.....	.....	.....	6
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	1	1	1	.....	.....	.....	.....	.....	.....	.....	1	.....	4
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Salvation Army	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Others	.....	1	2	1	.....	.....	.....	.....	.....	.....	1	.....	5
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	30	37	18	12	5	.....	4	.....	1	.....	5	.....	112

Licenses, 107. Banns, 5.

Marriages by Ages in the Town of Galt, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	3	9	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15
20	.....	23	15	4	3	1	.....	.....	.....	.....	.....	.....	.....	46
25	.....	6	12	10	.....	1	.....	.....	.....	.....	.....	.....	.....	29
30	.....	.....	.....	4	.....	1	.....	.....	.....	.....	.....	.....	.....	5
35	.....	.....	1	2	3	.....	.....	.....	.....	.....	.....	.....	.....	6
40	.....	.....	.....	1	2	.....	1	.....	1	.....	.....	.....	.....	5
45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	2
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated	.....	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	4
Totals.	3	42	31	21	8	3	2	.....	1	.....	1	.....	.....	112

Marriages by Denominations in the Town of Kenora, 1912.

Brides. / Grooms.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	5	1	1										7
Presbyterian	1	8	2	1									12
Methodist			3	1	1								5
Roman Catholic	1	2	1	5									9
Baptist													
Congregational	1												1
Lutheran							8						8
Evangelical Association													
Hebrew													
Salvation Army													
Others													
No Denomination													
Total Grooms	8	11	7	7	1		8						42

Licenses, 42. Banns, —.

Marriages by Ages in the Town of Kenora, 1912.

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15		3	4		1									8
20		6	8	3										17
25			2	1	3									6
30		1	1	3										5
35														
40				1			1							2
45														
50			1								1			2
55														
60														
65														
70 & over														
Age not stated.					2									2
Totals		10	16	8	6		1				1			42

Marriages by Denominations in the Town of Lindsay, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	16	1	2	1	1	.....	.....	.....	.....	1	.....	.....	22
Presbyterian	3	10	5	1	.....	.....	.....	.....	.....	.....	2	.....	21
Methodist	10	4	27	.....	3	.....	.....	.....	.....	.....	1	.....	45
Roman Catholic	1	1	.....	13	1	.....	.....	.....	.....	.....	.....	.....	16
Baptist	.....	2	2	.....	1	.....	.....	.....	.....	.....	.....	.....	5
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Others	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	30	18	37	15	6	.....	.....	.....	.....	2	3	.....	111

Licenses, 107. Banns, 4.

Marriages by Ages in the Town of Lindsay, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & over	Not stated	Total
15	1	17	4	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	23
20	2	15	22	4	2	.....	.....	.....	.....	.....	.....	.....	.....	45
25	.....	2	7	6	5	1	.....	.....	.....	.....	.....	.....	.....	21
30	.....	.....	2	6	1	.....	1	.....	1	.....	1	.....	.....	12
35	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
40	.....	.....	.....	.....	1	.....	1	.....	.....	1	.....	.....	.....	3
45	.....	.....	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	3
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Age not stated.	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Totals	3	35	35	17	10	1	3	1	2	2	2	.....	.....	111

BRIDES.

Marriages by Denominations in the Town of North Bay, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	14	1	5	.....	2	.....	1	.....	.....	.....	.....	.....	23
Presbyterian	3	14	4	.....	.....	.....	.....	.....	.....	.....	.....	.....	21
Methodist	4	2	12	.....	1	.....	.....	.....	.....	.....	.....	.....	19
Roman Catholic	1	5	.....	40	.....	.....	.....	.....	.....	.....	2	.....	48
Baptist	.....	1	2	.....	.....	.....	.....	.....	.....	.....	1	.....	4
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	23	23	23	41	3	.....	1	.....	.....	.....	4	.....	118

Licenses, 87. Banns, 31.

Marriages by Ages in the Town of North Bay, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	.....	17	11	3	1	.....	.....	.....	.....	.....	.....	.....	.....	32
20	1	23	23	5	2	1	.....	.....	.....	.....	.....	.....	.....	55
25	.....	2	10	8	2	.....	1	.....	.....	.....	.....	.....	.....	23
30	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	2
35	.....	1	1	1	1	.....	.....	.....	.....	.....	.....	.....	.....	4
40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
45	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.	1	43	46	17	6	2	1	1	.....	1	.....	.....	.....	118

BRIDES.

Marriages by Denominations in the Town of North Toronto, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	6		2		1								9
Presbyterian	2	6	1										9
Methodist	2		9		2								13
Roman Catholic													
Baptist					2								2
Congregational													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Others													
No Denomination													
Total Grooms	10	6	12		5								33

Licenses, 33. Banns, ..

Marriages by Ages in the Town of North Toronto, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15		2												2
20		6	9	1										16
25			5	1		1								7
30				2		1								3
35			1			1						1		3
40				1										1
45														
50										1				1
55														
60														
65														
70 & over														
Age not stated.														
Total		8	15	5		3				1		1		33

Marriages by Denominations in the Town of Orillia, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	18	2	3	.....	1	.....	.....	1	.....	.....	.....	.....	25
Presbyterian	3	18	3	.....	1	.....	.....	.....	.....	.....	.....	.....	30
Methodist	4	3	17	.....	1	.....	.....	.....	.....	.....	.....	.....	25
Roman Catholic	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Baptist	.....	.....	2	.....	3	.....	.....	.....	.....	.....	.....	.....	5
Congregational	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Salvation Army	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Others	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	32	23	27	.....	6	.....	.....	1	1	.....	.....	.....	90

Licenses, 90. Banns, ..

Marriages by Ages in the Town of Orillia, 1912.

GROOMS.

BRIDES. Age	15	20	25	30	35	40	45	50	55	60	65	70 &ov'r	Not stated	Total
15	1	11	3	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	17
20	.....	16	11	7	1	.....	.....	.....	.....	.....	.....	.....	.....	35
25	.....	.....	10	5	.....	1	.....	.....	.....	.....	.....	.....	.....	16
30	.....	.....	2	2	.....	1	2	.....	.....	.....	.....	.....	.....	7
35	.....	.....	.....	.....	1	2	1	1	.....	.....	.....	.....	.....	5
40	.....	.....	.....	.....	1	1	1	.....	.....	.....	.....	.....	.....	3
45	.....	.....	.....	.....	.....	.....	.....	2	1	.....	.....	.....	.....	3
50	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Totals	1	28	26	16	3	5	4	3	2	2	.....	.....	.....	90

Marriages by Denominations in the Town of Oshawa, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	18	1	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	22
Presbyterian	.....	2	5	.....	.....	1	.....	.....	.....	.....	.....	.....	8
Methodist	4	6	25	.....	1	.....	.....	.....	.....	.....	2	.....	38
Roman Catholic	.....	.....	.....	7	.....	.....	.....	.....	.....	.....	.....	.....	7
Baptist	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	5	.....	6
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Total Grooms	22	9	34	7	1	2	.....	.....	.....	.....	7	1	83

Licenses, 76. Banns, 7.

Marriages by Ages in the Town of Oshawa, 1912.

GROOMS.

BRIDES. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	.....	12	5	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	18
20	.....	17	12	5	1	.....	.....	.....	.....	.....	.....	.....	.....	35
25	.....	2	14	2	1	1	.....	.....	.....	.....	.....	.....	.....	20
30	.....	2	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	4
35	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....	2
40	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....	2
45	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	2
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	.....	33	32	9	3	5	.....	1	.....	.....	.....	.....	.....	83

Marriages by Denominations in the Town of Owen Sound, 1912.

Grooms. \ Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	11	3	8	.....	1	.....	.....	.....	.....	.....	.....	.....	23
Presbyterian	4	33	8	.....	1	1	.....	.....	.....	.....	.....	.....	47
Methodist	6	15	30	.....	.....	.....	.....	.....	.....	.....	2	.....	56
Roman Catholic	.....	.....	2	6	1	.....	.....	.....	.....	.....	.....	.....	9
Baptist	2	2	1	.....	3	.....	.....	.....	.....	1	.....	.....	9
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	1	.....	.....	.....	.....	.....	.....	.....	3	.....	.....	4
Others	.....	1	.....	1	.....	.....	.....	.....	.....	.....	5	.....	7
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	23	55	52	7	6	1	.....	.....	.....	4	7	.....	155

Licenses, 149. Banns 6.

Marriages by Ages in the Town of Owen Sound, 1912.

GROOMS.

Brides. \ Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	1	34	8	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	44
20	1	30	19	14	1	1	.....	.....	.....	.....	.....	.....	.....	66
25	.....	5	12	11	2	.....	.....	.....	.....	.....	.....	.....	.....	30
30	.....	.....	3	.....	2	.....	.....	.....	.....	.....	.....	.....	.....	5
35	.....	1	1	.....	3	.....	.....	.....	.....	.....	.....	.....	.....	5
40	.....	.....	.....	1	.....	1	1	.....	.....	.....	.....	.....	.....	3
45	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.	2	70	43	27	8	2	2	.....	1	.....	.....	.....	.....	155

BRIDES.

Marriages by Denominations in the Town of Pembroke, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Presbyterian	.....	8	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	9
Methodist	2	3	4	1	.....	.....	.....	.....	.....	.....	.....	.....	10
Roman Catholic	.....	4	.....	25	.....	.....	.....	.....	.....	.....	.....	.....	29
Baptist	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	.....	.....	1	1	.....	.....	4	.....	.....	.....	.....	.....	6
Evangelical Association	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	2
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	2	17	6	27	.....	.....	5	1	1	.....	.....	.....	59

Licenses, 46. Banns, 13.

Marriages by Ages in the Town of Pembroke, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	.....	10	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
20	.....	12	7	7	.....	.....	.....	.....	.....	.....	.....	.....	.....	26
25	.....	1	4	3	2	1	.....	.....	.....	.....	.....	.....	.....	11
30	.....	.....	1	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	3
35	.....	.....	1	.....	.....	1	.....	1	.....	.....	.....	.....	.....	3
40	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
45	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	2
50	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	1
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.	.....	23	15	12	3	3	.....	2	1	.....	.....	.....	.....	59

Marriages by Denominations in the Town of Port Hope, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	7	1											8
Presbyterian	1	1	1	1	1								5
Methodist			11	1	1								13
Roman Catholic				3									3
Baptist	1				2								3
Congregational													
Lutheran													
Evangelical Association													
Hebrew													
Salvation Army													
Others		1											1
No Denomination													
Total Grooms	9	3	12	5	4								33

Licenses, 33. Banns, ..

Marriages by Ages in the Town of Port Hope, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15		4												4
20	1	5	9	2										17
25		1	1	1		1								4
30				4	1									5
35														
40														
45				1										1
50										1				1
55														
60												1		1
65														
70 & over														
Age not stated														
	1	10	10	8	1	1				1		1		33

Marriages by Denominations in the Town of Sarnia, 1912.

Grooms / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	15	7	3	1	2	.....	.....	.....	1	1	2	.....	32
Presbyterian	.....	23	15	1	1	.....	.....	1	.....	.....	1	.....	41
Methodist	3	12	87	5	9	2	1	.....	.....	.....	1	.....	121
Roman Catholic	3	2	2	17	1	.....	1	.....	.....	.....	1	.....	27
Baptist	2	5	7	2	17	.....	1	.....	.....	.....	1	.....	35
Congregational	1	.....	3	1	.....	.....	.....	.....	.....	.....	1	.....	6
Lutheran	1	.....	5	.....	.....	.....	2	.....	.....	.....	1	.....	9
Evangelical Association	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	1	1	1	2	.....	.....	.....	.....	.....	.....	15	.....	20
No Denomination	.....	.....	1	.....	1	.....	.....	.....	.....	.....	2	.....	4
Total Grooms	26	50	125	29	31	2	5	1	2	1	25	.....	297

Licenses, 295. Banns, 2.

Marriages by Ages in the Town of Sarnia, 1912.

GROOMS.

Brides / Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	7	61	12	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	83
20	1	53	35	5	4	.....	1	.....	.....	.....	.....	.....	.....	99
25	.....	8	22	12	6	3	1	.....	.....	.....	.....	.....	.....	52
30	.....	.....	3	8	7	2	3	1	.....	.....	.....	.....	.....	24
35	.....	.....	1	2	3	2	3	.....	.....	.....	.....	.....	.....	11
40	.....	.....	.....	.....	3	3	3	1	1	1	.....	.....	.....	12
45	.....	.....	.....	.....	1	4	2	.....	1	.....	.....	.....	.....	8
50	.....	.....	.....	.....	.....	2	1	1	.....	1	1	.....	.....	6
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Totals	8	122	74	30	24	16	14	4	2	2	1	.....	.....	297

BRIDES.

Marriages by Denominations in the Town of Sault Ste. Marie, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	30	8	3	2	2	.....	1	.....	1	.....	.....	.....	47
Presbyterian	6	25	6	3	3	.....	.....	.....	.....	.....	.....	.....	43
Methodist	5	2	30	1	2	.....	.....	.....	.....	.....	.....	.....	40
Roman Catholic	4	2	3	50	1	.....	.....	.....	.....	1	.....	.....	61
Baptist	1	1	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	3
Congregational	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Lutheran	.....	.....	.....	.....	1	.....	19	.....	.....	.....	.....	.....	20
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	2
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	.....	2	.....	.....	.....	.....	.....	.....	4	.....	6
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	46	38	42	58	10	1	20	.....	3	1	4	.....	223

Licenses, 197. Banns 26.

Marriages by Ages in the Town of Sault Ste. Marie, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	3	26	10	5	1	.....	.....	.....	.....	.....	.....	.....	.....	45
20	1	49	31	16	2	1	.....	.....	.....	.....	.....	.....	.....	100
25	.....	2	21	11	4	1	.....	.....	.....	.....	.....	.....	.....	39
30	.....	.....	2	10	5	2	.....	.....	1	.....	.....	.....	.....	20
35	.....	.....	1	3	3	.....	1	2	.....	.....	.....	.....	.....	10
40	.....	.....	.....	.....	1	3	1	.....	.....	.....	.....	.....	.....	5
45	.....	.....	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	2
50	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	2
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	4	77	65	45	17	7	2	3	3	.....	.....	.....	.....	223

Marriages by Denominations in the Town of Smith's Falls, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	10	3	1	1	.....	.....	.....	.....	.....	.....	.....	.....	15
Presbyterian	4	2	2	.....	1	.....	.....	.....	.....	.....	.....	.....	9
Methodist	2	2	15	2	.....	.....	.....	1	.....	.....	1	.....	23
Roman Catholic	1	.....	.....	12	.....	.....	.....	.....	.....	.....	.....	.....	13
Baptist	1	.....	1	.....	2	.....	.....	.....	.....	.....	.....	.....	4
Congregational	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lutheran	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Evangelical Association	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Others	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total Grooms	18	7	19	15	3	.....	.....	1	.....	.....	1	.....	64

Licenses, 53. Banns, 11.

Marriages by Ages in the Town of Smith's Falls, 1912.

GROOMS.

Brides. Age.	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total
15	1	6	5	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12
20	.....	11	9	3	1	.....	.....	.....	.....	.....	.....	.....	.....	24
25	.....	1	7	4	1	1	.....	.....	.....	.....	.....	.....	.....	14
30	.....	1	5	2	1	.....	.....	.....	.....	.....	.....	.....	.....	9
35	.....	.....	1	1	1	.....	.....	.....	.....	1	.....	.....	.....	4
40	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
45	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
55	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals	1	19	27	10	4	2	.....	.....	.....	1	.....	.....	.....	64

BRIDES.

Marriages by Denominations in the Town of Welland, 1912.

Grooms. / Brides.	Anglican.	Presbyterian.	Methodist.	Roman Catholic.	Baptist.	Congregational.	Lutheran.	Evangelical Association.	Hebrew.	Salvation Army.	Others.	No Denomination.	Total Brides.
Anglican	14	2	4	1	3	.....	2	.....	.....	.....	.....	.....	26
Presbyterian	3	5	2	1	1	.....	.....	.....	.....	.....	1	.....	13
Methodist	3	4	12	.....	1	.....	1	1	.....	.....	.....	.....	22
Roman Catholic	.....	.....	.....	36	1	.....	.....	.....	.....	.....	1	.....	38
Baptist	.....	1	3	.....	7	1	3	.....	.....	.....	1	.....	16
Congregational	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	2
Lutheran	2	1	.....	2	1	.....	.....	.....	.....	.....	.....	.....	6
Evangelical Association	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Hebrew	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Salvation Army	.....	.....	1	.....	.....	1	.....	.....	.....	1	.....	.....	3
Others	.....	.....	3	2	1	.....	.....	.....	.....	.....	10	.....	16
No Denomination	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Total Grooms	22	13	26	42	15	2	7	1	.....	1	14	1	144

Licenses, 133. Banns, 11.

Marriages by Ages in the Town of Welland, 1912.

GROOMS.

Brides / Age	15	20	25	30	35	40	45	50	55	60	65	70 & ov'r	Not stated	Total.
15	2	27	11	1	1	.....	.....	.....	.....	.....	.....	.....	.....	42
20	.....	29	24	2	1	.....	.....	.....	.....	.....	.....	.....	.....	56
25	1	3	8	11	1	.....	.....	.....	.....	.....	.....	.....	.....	24
30	.....	1	2	4	1	.....	.....	.....	.....	.....	.....	.....	.....	8
35	.....	.....	1	.....	1	1	1	.....	.....	.....	.....	.....	.....	4
40	.....	.....	.....	.....	1	.....	.....	.....	2	.....	.....	.....	.....	3
45	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
50	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	2
55	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
60	.....	.....	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	2
65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
70 & over	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	1
Age not stated.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.	3	60	46	18	6	1	3	2	3	1	.....	1	.....	144

BRIDES.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
		0-1																																			
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	470	118	27	7	6	7	21	9	16	47	40	23	29	30	39	16	35	269	200	1	298	82	90	267	161	42	47	30	42	49	41	37	51	36	45	34	31	27
I.—General Diseases.																																					
Group Total	125	7	5	5	1	7	12	2	8	18	12	5	10	11	8	3	11	73	52	....	78	21	26	66	47	12	10	7	9	20	10	12	19	6	14	9	4	5
1. Typhoid fever	14	....	1	1	..	..	..	..	2	5	1	1	....	1	..	..	2	14	....	....	8	4	2	8	5	1	4	..	..	..	..	2	..	2	4	..	..
6. Measles	8	....	1	2	..	1	1	1	..	1	..	..	..	..	..	..	1	5	3	....	8	....	....	8	....	....	..	..	..	1	..	2	4	..	1	..	..	2
7. Scarlet fever	1	....	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
8. Whooping cough	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	2	....	2	....	....	2	....	....	..	..	..	..	..	2	..	..	..	..	..	..
9. Diphtheria and croup	16	1	..	1	..	4	7	1	1	..	..	..	..	..	..	..	1	7	9	....	14	1	1	15	....	1	3	1	1	3	1	..	3	..	2	..	2	..
10. Influenza	3	....	..	..	..	..	..	..	..	..	1	..	..	..	..	2	..	1	2	....	1	2	....	....	2	1	..	1	..	..	1	1	..	..	..	..	..	..
14. Dysentery	2	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	1	..	..	..	..	..	..	..	..
18. Erysipelas	2	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	1	....	2	....	....	1	1	....	1	..	..	..	..	..	..	..	1	..	..	..
20. Purulent infection and septicæmia	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	28	....	1	..	..	..	..	..	4	10	5	1	2	..	1	..	4	17	11	....	16	4	8	13	9	6	1	1	3	3	3	1	7	..	6	1	..	2
30. Tuberculous meningitis	4	....	1	..	1	1	1	..	..	..	..	..	..	..	..	..	..	2	2	....	4	....	....	4	....	....	..	..	1	..	1	..	1	..	1	..	..	..
31. Abdominal tuberculosis	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
36. Rickets	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
37. Syphilis	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	9	....	..	..	..	..	..	..	..	..	..	..	2	3	4	..	..	6	3	....	2	5	2	....	9	....	..	1	1	1	1	3	..	1	1	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1
42. Cancer and other malignant tumors of the female genital organs	4	....	..	..	..	..	..	..	..	..	2	..	1	..	1	..	..	....	4	....	1	1	2	....	3	1	1	..	..	1	1	..	1	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	2	....	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	....	2	....	1	....	1	....	2	....	..	1	..	..	..	..	..	..	1	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	5	....	..	..	..	..	..	..	..	..	..	..	....	3	1	..	1	4	1	....	2	....	3	....	5	....	....	..	1	2	....	..	1	1	..	..	..	..
47. Acute articular rheumatism	4	....	..	..	..	..	2	..	1	....	1	..	....	..	..	..	..	3	1	....	2	2	....	4	....	....	..	..	1	1	..	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	1	1	....	1	....	1	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..
50. Diabetes	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..
51. Exophthalmic goitre	2	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	....	1	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	2	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	....	2	....	1	....	1	....	2	....	..	..	..	..	..	1	..	..	1	..	..	..
55. Other general diseases	2	....	..	..	..	..	..	..	..	....	1	1	....	..	..	..	..	....	2	....	2	....	....	2	....	....	..	..	..	1	..	1	..	1	..	..	..	..
56. Alcoholism (acute or chronic)	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
	7	....	..	..	..	..	..	..	..	....	1	1	3	1	..	..	1	7	....	....	1	2	4	4	2	1	....	....	..	5	1	..	..	..	..	..	..	..

ALGOMA—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	44	14	4	1	1	..	1	2	2	1	1	2	5	5	2	2	1	27	17	....	34	5	5	28	16	....	4	3	4	3	3	2	4	1	7	3	6	4
61. Simple meningitis	8	1	3	..	..	..	1	2	1	....	..	..	....	..	..	..	..	6	2	....	7	....	1	8	....	....	1	1	..	2	1	..	..	1	2	..	..	..
63. Other diseases of the spinal cord	1	....	..	..	1	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	....	1	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..
64. Cerebral hæmorrhage, apoplexy	12	....	..	..	..	..	..	..	..	....	..	3	4	3	2	1	..	9	3	....	6	3	4	....	12	....	1	1	1	..	1	..	1	..	3	2	2	..
65. Softening of the brain	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
66. Paralysis without specified cause	4	....	..	..	..	..	..	..	..	1	..	..	1	1	..	1	..	2	2	....	3	1	....	1	3	....	..	..	..	1	..	..	1	1	..	..	1	..
69. Epilepsy	4	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
70. Convulsions (non-puerperal)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	..	..	1	1
71. Convulsions of infants	2	....	..	1	..	..	..	..	..	....	1	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	..	..	..	..
76. Diseases of the ears	14	12	1	..	..	..	..	..	..	....	..	..	....	..	..	..	1	7	7	....	11	....	....	14	....	....	2	1	1	1	1	1	1	..	2	1	1	2
	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
III. Diseases of the Circulatory System.																																						
Group Total	23	....	..	..	..	..	..	..	1	2	1	2	1	8	5	..	3	13	10	....	11	7	5	5	15	3	3	4	1	1	2	1	..	1	3	4	2	1
78. Acute endocarditis	2	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	1	2	....	....	1	1	....	1	1	....	1	..	..	..	1	..	..	..	..	..	..	..
79. Organic diseases of the heart	16	....	..	..	..	..	..	..	..	2	..	2	1	6	3	..	2	10	6	....	8	5	3	3	12	1	2	3	1	1	1	..	1	1	3	2	..
81. Diseases of the Arteries, atheroma, aneurysm, etc.	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
82. Embolism and thrombosis	4	....	..	..	..	..	..	..	1	....	1	..	....	1	1	..	..	1	3	....	2	....	2	1	1	2	..	..	..	..	..	..	..	..	2	1	..	1
IV.—Diseases of the Respiratory System.																																						
Group Total	43	13	9	1	3	..	1	3	..	....	4	1	3	1	3	..	1	23	20	....	33	4	6	32	9	2	6	3	4	7	5	5	5	..	2	2	2	2
87. Diseases of the larynx	2	....	..	..	1	..	1	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	1	..	..	..	..	..	..	..	..
89. Acute bronchitis	7	6	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	4	....	7	....	....	7	....	....	1	..	..	1	1	2	..	..	..	1	..
91. Broncho-pneumonia	10	3	4	1	1	..	..	..	..	....	..	..	....	..	..	..	1	6	4	....	9	....	1	9	....	1	1	..	1	2	..	..	..	1	..	..	1	1
92. Pneumonia	21	4	4	..	1	..	..	3	..	....	3	1	2	..	3	..	..	11	10	....	13	4	4	13	7	1	3	3	3	3	2	3	1	..	1	1	..	1
93. Pleurisy	3	....	..	..	..	..	..	..	..	....	1	..	1	1	..	..	..	2	1	....	2	....	1	1	2	....	1	..	..	1	..	..	..	..	..	1	..	..
V.—Diseases of the Digestive System.																																						
Group Total	53	25	8	..	..	..	2	..	1	5	3	1	3	2	..	1	2	20	33	....	42	5	6	41	10	2	6	..	5	3	4	2	4	9	9	4	3	4
103. Other diseases of the stomach (cancer excepted)	9	5	..	..	..	..	..	..	..	....	..	..	2	0	..	1	..	4	5	....	7	1	1	5	4	....	1	..	1	2	2	1	1	..	1	..	..
104. Diarrhœa and enteritis (under 2 years)	28	20	8	..	..	..	..	..	..	....	..	..	....	..	..	..	..	9	19	....	28	....	....	28	....	....	1	..	3	1	1	1	1	7	8	2	1	2
108. Appendicitis and typhlitis	6	....	..	..	..	..	..	..	1	5	..	..	....	..	..	..	..	3	3	....	4	1	1	5	1	....	3	..	1	..	..	..	..	..	..	1	1
109. Hernias, intestinal obstructions	4	....	..	..	..	..	1	..	..	....	1	1	1	..	..	..	..	1	3	....	1	2	1	2	2	....	..	..	..	..	..	..	..	2	..	1	1
117. Simple peritonitis (non-puerperal)	6	....	..	..	..	..	1	..	..	....	2	..	....	1	..	..	2	3	3	....	2	1	3	1	3	2	1	..	..	1	..	2	..	1	1	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	15	....	..	..	..	..	2	..	..	1	2	4	....	2	2	..	2	9	6	....	9	2	4	5	7	2	..	3	2	1	2	1	1	1	..	1	1	2
119. Acute nephritis	2	....	..	..	..	..	1	..	..	....	1	..	....	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	1	..	..	..	1	..	..	..	..	..
120. Bright's disease	10	....	..	..	..	..	..	..	..	....	1	1	4	....	2	1	..	1	6	4	....	6	2	2	3	5	2	..	2	1	1	1	1	..	1	..	1	1	1
122. Other diseases of the kidneys and adnexa	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	1	....	....	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..	..
123. Calculi of the urinary passages	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
127. Non-venereal diseases of the male genital organs	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	Septemper.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	567	110	16	6	3	1	6	9	11	29	40	35	51	54	116	72	8	299	267	1	345	156	66	216	228	123	49	36	47	64	57	40	41	54	50	43	37	49
I.—General Diseases.																																						
Group Total	121	15	3	2	2	1	5	1	2	15	15	10	12	18	16	4	..	60	61	....	77	28	16	55	43	23	12	6	11	13	15	14	8	8	10	10	5	9
1. Typhoid fever	6	....	..	..	..	..	..	..	1	2	2	..	1	..	..	..	..	5	1	....	5	1	....	3	1	2	1	..	..	..	1	..	1	..	1	2	..	..	..
6. Measles	2	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2	....	2	..	....	2	..	....	..	..	1	..	..	1	..	..	..	..	..	..
8. Whooping cough	12	6	3	2	..	..	..	..	..	..	1	..	..	..	..	..	..	3	9	....	12	..	....	11	1	....	1	2	1	2	2	2	..	1	1	..	..	..
9. Diphtheria and croup	3	1	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	2	1	....	3	..	....	3	..	....	1	..	..	..	..	..	..	..	..	..	1	1
10. Influenza	7	2	..	..	..	..	..	..	..	..	..	..	..	1	2	2	..	4	3	....	2	3	2	2	..	5	3	..	..	3	1	..	..	..	..	..	..	..
14. Dysentery	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	..	....	1	..	....	..	..	..	..	..	..	..	..	..	..	1	..
18. Erysipelas	3	1	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	1	2	....	2	1	....	1	1	1	..	1	1	..	1	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	2	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	1	1	....	1	1	....	1	1	....	..	1	..	..	..	..	..	..	..	..	..	1
24. Tetanus	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	....	..	1	....	1	..	....	..	..	..	..	..	1	..	..	..	..	..	..
28. Tuberculosis of the lungs	31	1	..	..	..	..	1	..	..	9	8	4	5	2	1	..	..	17	14	....	19	8	4	13	7	11	2	2	4	3	2	5	..	2	2	..	..
30. Tuberculous meningitis	4	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	2	2	....	1	..	....	4	..	....	..	..	..	1	..	..	..	1	..	..	..	..
31. Abdominal tuberculosis	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	....	1	..	....	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..
34. Tuberculosis of other organs	3	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	1	1	....	1	1	....	1	1	....	..	..	..	..	..	..	1	..	1	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	....	..	1	....	..	1	....	..	..	..	..	..	..	..	..	1	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	5	..	..	..	..	..	..	..	..	..	..	..	..	3	2	..	..	3	2	....	..	4	1	..	4	1	..	..	1	..	..	1	..	..	1	1	1	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	7	..	..	..	..	..	..	..	..	..	..	..	1	2	4	..	..	5	2	....	4	..	3	1	4	2	2	..	1	1	1	1	..	..	..	..	..	1
43. Cancer and other malignant tumors of the breast	4	..	..	..	..	..	..	..	..	2	..	1	1	..	..	..	..	..	4	....	3	..	1	..	4	..	..	..	..	..	1	1	1	..	1	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	13	..	..	..	..	..	..	..	..	1	..	1	2	5	3	1	..	6	7	....	5	6	2	2	9	2	1	..	1	..	3	..	2	3	..	1	1	1
47. Acute articular rheumatism	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	..	....	1	..	....	..	..	..	..	..	1	..	..	..	..	..	..
48. Chronic rheumatism and gout	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	....	1	..	....	1	..	....	..	..	..	..	..	1	..	..	..	..	..	..
50. Diabetes	3	..	..	..	..	..	..	..	1	..	..	1	..	1	..	..	..	1	2	....	3	..	....	2	1	....	1	..	..	..	1	..	..	..	1	..	..	..
51. Exophthalmic goitre	2	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	1	1	....	1	..	1	1	..	....	..	..	..	1	..	..	..	..	..	..	..	..
53. Leucæmia	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	....	1	..	....	1	..	....	..	..	..	..	..	..	1	..	..	..	..	..
54. Anæmia, chlorosis	6	..	..	..	..	..	..	..	..	1	1	3	..	1	..	..	..	..	6	....	4	1	1	2	3	1	..	..	1	1	1	1	1	..	1	..	..	..
55. Other general diseases	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	....	1	..	....	1	..	....	..	..	..	..	..	..	1	..	..	..	..	..
56. Alcoholism (acute or chronic)	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	....	1	..	....	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
VII.—The Puerperal State.																																						
Group Total	6								1	2	3								6		3	3		1	3	2	1			1			2	1	1			
134. Accidents of pregnancy	2								1		1								2		1	1		1	1								1		1			
135. Puerperal haemorrhage	1										1								1		1				1									1				
137. Puerperal septicæmia	2									1	1								2		1	1			1	1	1											
138. Puerperal albuminuria and convulsions	1									1									1			1				1				1								
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	1												1					1			1				1			1										
144. Acute abscess	1												1					1			1				1			1										
X.—Malformations.																																						
Group Total	4	4																1	3		4			4						1		1		1				
150. Congenital malformations (still-births not included)	4	4																1	3		4			4						1		1		1				
XI.—Diseases of Early Infancy.																																						
Group Total	49	49																30	18	1	49			49			2	3	2	7	10		2	4	6	4	2	7
151. Congenital debility, icterus, and sclerema	42	42																26	16		42			42			2	2	2	3	8		2	4	6	4	2	7
152. Other diseases peculiar to early infancy	7	7																4	2	1	7			7				1		4	2						
XII.—Old Age.																																						
Group Total	92													42	50			39	53		30	47	15	6	71	15	13	4	10	12	7	2	5	6	3	7	6	17
XIII.—Affections Produced by External Causes.																																						
Group Total	34		2	1				2	2	5	6	3	2	2	4	1	4	29	5		15	15	4	8	16	10	3	2	1	4	2	4	6	6	4	1	1
157. Suicide by hanging or strangulation	1													1				1					1			1				1								
158. Suicide by drowning	1								1										1		1			1						1								
167. Burns (conflagration excepted)	1			1														1			1			1								1					
169. Accidental drowning	7							2		2		1					2	7			2	4	1	3	3	1					1	2	3	1				
170. Traumatism by firearms	1										1							1				1			1												1	
172. Traumatism by fall	1		1															1				1		1													
174. Traumatism by machines	1									1								1				1			1				1								
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	5								1	1	1	1					1	5			2	2	1	1	3	1	1	1				1	1	1				
176. Injuries by animals	1													1				1				1			1									1				
180. Lightning	1										1							1			1				1									1				
181. Electricity (lightning excepted)	2									1	1							2			2				2								1		1			
184. Homicide by other means	1																1	1					1							1								
185. Fractures (causes not specified)	6										1	1	2		1	1		4	2		2	4			3	3	1			1		1	1	1		1		
186. Other external violence	5		1								1			1	2			3	2		3	2		1	3	1	1				1			2	1			
XIV.—Ill-Defined Diseases.																																						
Group Total	5									1		2	1				1	3	2		3	1	1	1		4					2					1	1	
188. Sudden death	1									1									1		1			1		1				1								
189. Cause of death not specified or ill-defined	4											2	1				1	3	1		3		1	1		3				1					1	1	
Still-births.																																						
Not included in totals	43																	22	18	3	43			43			5	3	2	5	2	6	3	3	4		8	2

CAUSES OF DEATH IN THE COUNTY OF BRUCE, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	621	95		11	7	3	4	8	6	15	25	31	37	50	83	147	95	4	354	267	....	368	195	58	235	305	81	50	61	61	66	62	53	41	49	40	46	45	47
I.—General Diseases.																																							
Group Total	140	7	5	4	3	2	2	2	7	8	14	15	20	29	19	3	..	66	74	....	98	33	9	55	64	21	10	13	19	11	12	18	9	11	8	9	15	5
1. Typhoid fever	2	....	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	1	1	....	1	....	1	2	....	....	..	..	..	..	..	..	..	..	1	1	..
6. Measles	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
7. Scarlet fever	4	1	..	..	2	..	..	1	..	..	..	..	..	..	..	..	..	..	3	1	....	4	....	....	4	....	....	1	2	1	..	..	..	..	..	..	..	..	..
8. Whooping cough	7	4	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	5	....	7	....	....	7	....	....	..	2	..	..	2	..	1	..	..	..	..	..
9. Diphtheria and croup	5	....	..	1	..	2	1	..	1	..	..	..	..	..	..	..	..	..	3	2	....	4	1	....	5	....	....	..	1	1	..	..	1	..	..	..	..	1	1
10. Influenza	5	....	..	1	..	..	..	..	..	1	....	..	..	2	..	1	..	..	3	2	....	4	1	....	3	2	1	1	..	2	..	1	..	..	..	..	..	1	..
14. Dysentery	4	1	2	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	4	....	4	....	....	3	1	....	1	..	..	..	..	..	..	..	..	1	1	1
18. Erysipelas	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	1	....	....	....	....	1	..	..	..	1	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	4	....	..	1	..	..	..	1	..	..	....	1	1	..	..	..	..	..	..	4	....	3	1	....	2	2	....	..	..	1	..	..	1	..	..	1	1	..
28. Tuberculosis of the lungs	30	....	..	..	..	..	..	..	3	5	7	5	2	7	1	..	..	18	12	....	28	....	2	14	10	6	3	3	5	4	4	5	..	3	1	1	1	..
29. Acute miliary tuberculosis	1	....	..	..	..	..	..	..	..	1	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..
30. Tuberculous meningitis	2	....	1	..	..	..	1	..	..	..	....	..	..	..	..	..	..	..	2	....	....	1	1	....	2	....	....	..	1	..	..	1	..	..	..	..	..	..	..
32. Pott's disease	1	....	..	..	..	..	..	..	..	..	....	1	..	..	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
34. Tuberculosis of other organs	2	....	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	1	..	..	..	..	..	..	1	..	..
39. Cancer and other malignant tumors of the buccal cavity	4	....	..	..	..	..	..	..	..	..	....	..	..	1	..	..	3	..	4	....	....	2	2	....	....	4	....	..	..	..	..	..	..	2	1	..	1	..	..
40. Cancer and other malignant tumors of the stomach, liver	26	....	..	..	..	..	..	..	..	..	....	..	1	6	11	8	..	..	13	13	....	12	12	2	2	18	6	2	1	1	4	..	3	3	2	3	3	4	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	5	....	..	..	..	..	..	..	..	..	....	..	2	....	1	2	..	..	3	2	....	1	4	....	....	3	2	..	..	..	..	..	1	..	2	..	..	2	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	9	....	..	..	..	..	..	..	..	..	....	1	..	....	4	1	..	..	3	6	....	4	5	....	1	7	1	1	1	3	..	..	..	..	..	1	..	1	2
47. Acute articular rheumatism	3	....	..	..	..	..	..	..	..	..	....	..	..	....	3	..	..	..	..	3	....	1	2	....	1	2	....	..	..	..	..	2	..	..	..	..	..	1	..
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	1	1	....	1	1	....	....	1	1	..	..	..	1	..	1	..	..	..	..	..	..
50. Diabetes	5	....	..	..	..	..	..	..	1	....	1	2	....	..	1	....	..	..	5	....	....	....	2	3	2	2	1	..	..	1	..	3	..	1	..	..	..	..	..
51. Exophthalmic goitre	2	....	..	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	..	2	....	1	....	....	....	2	....	..	..	1	..	..	..	..	..	1	..	..	..	..
52. Addison's disease	1	....	..	..	..	..	..	..	..	..	....	..	1	..	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
54. Anæmia, chlorosis	11	....	..	..	..	..	..	..	..	..	....	3	3	4	..	1	..	..	4	7	....	9	1	1	3	5	3	1	2	1	2	..	1	3	1	..	..	..	..
55. Other general diseases	1	....	..	..	1	..	..	..	..	..	....	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1

BRUCE—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	67	7	..	1	..	..	2	..	1	3	2	3	6	7	19	14	2	35	32	....	33	21	10	23	24	10	2	7	9	9	3	6	3	6	7	3	5	7
61. Simple meningitis	4	2	..	..	..	..	..	..	1	....	..	..	....	..	1	..	..	3	1	....	4	....	....	3	1	....	..	..	1	..	..	2	....	1	..	..	..	..
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	1	....	1	..	..	..	1	..	..	....	..	..	..	..	..
63. Other diseases of the spinal cord	3	....	..	1	..	..	..	..	..	....	..	..	1	1	..	..	..	1	2	....	1	1	1	1	1	1	..	..	..	1	..	2	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	24	....	..	..	..	..	..	..	..	....	..	2	2	2	12	5	1	12	12	....	9	8	7	3	17	4	1	3	3	4	2	..	..	2	3	3	2	2
66. Paralysis without specified cause	18	....	..	..	..	..	..	..	..	....	1	..	2	1	5	8	1	10	8	....	6	11	1	3	13	2	..	1	4	2	..	2	1	1	..	..	3	4
67. General paralysis of the insane	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	....	1	....	....	1	....	....	....	1	..	1	..	..	..	..	..	..	..	..	..	..
68. Other forms of mental alienation	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	....	1	..	..	..	1	..	..	..	..	..	..	..	..
69. Epilepsy	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
71. Convulsions of infants	5	5	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	4	....	5	....	....	5	....	....	..	..	1	..	..	1	..	3	..	..	..	..
73. Neuralgia and neuritis	3	....	..	..	..	..	..	..	..	....	..	1	....	1	1	..	..	3	....	....	1	1	1	....	2	1	..	..	1	..	..	1	..	..	..	..	..	1
74. Other diseases of the nervous system	5	....	..	..	..	1	..	..	..	3	....	..	1	..	..	..	..	3	2	....	5	....	....	5	....	....	..	1	1	..	..	..	1	..	2	..	..	..
76. Diseases of the ears	1	....	..	..	..	1	..	..	..	....	..	..	....	..	..	..	..	....	1	....	....	1	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
III. Diseases of the Circulatory System.																																						
Group Total	77	1	1	..	..	..	1	..	..	4	..	1	6	15	10	8	..	53	24	....	33	32	12	20	45	12	4	7	6	7	11	5	7	10	5	7	2	6
78. Acute endocarditis	2	....	1	..	..	..	1	..	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	..	..	..	1	..	..	..	..	1	..	..	..
79. Organic diseases of the heart	44	....	..	..	..	..	..	..	..	4	..	1	5	10	20	4	..	30	14	....	21	15	8	9	27	8	2	4	2	3	8	2	4	9	3	3	1	3
80. Angina pectoris	2	....	..	..	..	..	..	..	..	....	..	..	....	..	1	1	..	2	....	....	....	1	1	....	1	1	..	..	..	..	..	..	..	1	..	1	..	..	..
81. Diseases of the Arteries, atheroma, aneurysm, etc.	28	....	..	..	..	..	..	..	..	....	..	..	1	5	19	3	..	19	9	....	9	16	3	8	17	3	2	2	4	3	3	3	2	1	1	3	1	3
85. Hæmorrhage; other diseases of the circulatory system	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	56	12	3	1	..	..	2	1	1	4	2	1	3	6	12	5	..	35	21	....	38	14	4	26	24	6	6	6	11	7	8	4	..	..	1	2	7	4
87. Diseases of the larynx	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
89. Acute bronchitis	5	2	..	..	..	1	..	..	..	....	..	..	....	..	2	..	..	4	1	....	3	1	1	3	2	....	1	1	1	1	1	..	..	..	..	..	..	..
91. Broncho-pneumonia	12	6	1	..	..	..	..	1	..	....	..	1	....	1	1	1	..	8	4	....	10	1	1	8	3	1	..	1	4	3	3	1	..	..	..	..	..	..
92. Pneumonia	33	4	2	..	..	..	1	..	1	4	2	3	1	1	7	4	..	20	13	....	22	9	2	13	15	5	5	3	5	3	4	2	..	..	1	1	6	3
94. Pulmonary congestion, pulmonary apoplexy	3	....	..	..	..	..	..	..	..	....	..	..	2	..	1	..	..	1	2	....	2	1	....	....	3	....	..	1	..	..	..	..	..	..	..	1	1	..
96. Asthma	2	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	1	1	....	....	2	....	1	1	....	..	1	..	..	..	..	..	..	1	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	42	5	..	..	..	..	..	2	3	1	7	2	3	5	9	5	..	22	19	....	29	11	2	16	22	4	2	3	3	6	3	..	6	4	3	6	4	2
102. Ulcer of the stomach	2	....	..	..	..	..	..	..	..	....	..	..	....	..	1	1	..	1	1	....	....	1	1	....	1	1	..	..	..	..	..	..	1	..	1	..	..	..
103. Other diseases of the stomach (cancer excepted)	5	3	..	..	..	..	..	..	..	....	..	..	....	1	..	1	..	3	2	....	3	2	....	3	2	....	..	..	1	2	1	..	..	..	..	1	..	..
105. Diarrhœa and enteritis (2 years and over)	4	....	..	..	..	..	..	..	..	....	..	..	1	2	1	..	..	2	2	....	4	....	....	1	3	....	..	..	..	2	..	..	..	1	..	..	1	..
108. Appendicitis and typhlitis	6	....	..	..	..	..	2	..	..	3	..	..	....	..	1	..	..	5	1	....	6	....	....	4	2	....	..	..	..	..	..	..	1	2	..	3	..	..
109. Hernias, intestinal obstructions	16	1	..	..	..	..	..	2	..	2	2	..	2	5	2	..	..	9	7	....	9	6	1	1	9	3	2	2	..	1	2	..	2	1	1	2	1	2
110. Diseases of the intestines	2	1	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	1	1	..	..	..
113. Cirrhosis of the liver	2	....	..	..	..	..	..	..	..	....	1	..	....	..	1	..	..	2	....	....	1	1	....	....	2	....	..	..	..	..	..	..	..	..	..	2	..	..
114. Biliary calculi	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
115. Other diseases of the liver	2	....	..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	....	2	....	2	....	....	1	1	....	..	..	2	..	..	..	..	..	..	..	..	..
117. Simple peritonitis (non-puerperal)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	....	1	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
118. Other diseases of the digestive system (cancer and tuberculosis excepted)	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
XIII.—Affections Produced by External Causes.																																						
Group Total	22	....	1	1	..	1	1	..	1	2	2	3	1	7	1	1	..	15	7	....	17	4	1	9	8	5	2	1	1	1	2	..	5	3	3	2	1	1
157. Suicide by hanging or strangulation	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
163. Other suicides	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
165. Other acute poisonings	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
166. Conflagration	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..
169. Accidental drowning	5	....	1	..	..	..	1	..	1	....	..	1	1	..	..	..	..	3	2	....	5	....	....	4	....	1	..	..	..	..	..	..	3	2	..	..	..	..
172. Traumatism by fall	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	1	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
175. Traumatism by other crushing (vehicles, rail road, landslides, etc.)	3	....	..	..	..	1	..	..	..	....	1	1	....	..	..	..	..	2	1	....	3	....	....	1	1	1	..	1	1	..	..	..	1	..	..	..	..	..
176. Injuries by animals	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
185. Fractures (causes not specified)	7	....	..	..	..	..	..	..	..	....	1	..	....	4	1	1	..	5	2	....	4	2	1	....	5	2	2	..	..	..	2	..	..	1	1	..	..	1
186. Other external violence	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	1	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	29	3	1	..	..	1	..	..	1	2	2	4	2	6	4	3	..	16	13	....	18	8	3	10	16	3	6	5	2	5	3	2	1	1	..	..	2	2
187. Ill-defined organic disease	8	....	..	..	..	..	..	..	1	....	2	..	1	1	3	..	..	4	4	....	2	4	2	3	5	....	3	3	1	..	1	..	..	..	..	..	..	..
188. Sudden death	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
189. Cause of death not specified or ill-defined	20	3	1	..	..	1	..	..	..	2	..	4	1	4	1	3	..	11	9	....	16	3	1	7	10	3	3	2	1	5	2	2	1	1	..	..	1	2
Still-Births.																																						
Not included in totals	42	42	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	23	16	3	42	....	....	42	....	....	3	3	4	4	4	4	2	6	4	2	4	2

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	1,933	576	56	21	16	19	48	23	45	122	142	123	137	200	217	163	25	1,017	916	.....	1,536	320	77	1,024	851	58	133	157	168	180	176	139	180	205	163	148	153	131
I.—General Diseases.																																						
Group Total	493	51	14	5	7	11	23	12	21	85	62	53	56	17	31	4	8	254	239	....	372	96	25	252	228	13	25	51	45	29	25	34	34	86	42	19	44	29
1. Typhoid fever	101	....	..	1	..	2	6	4	11	34	16	14	2	8	3	..	..	61	40	....	69	27	5	56	45	....	..	..	..	1	1	..	6	52	14	19	5	3
5. Smallpox	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	....	2	..	..	2	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..
6. Measles	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	..	..	1	..	..	..	..	..	..	..	1	2	..	..	..	..	..	..
7. Scarlet fever	3	..	..	1	..	1	1	..	..	..	..	..	..	..	..	..	..	1	2	....	3	..	..	3	..	..	..	..	..	..	1	2	..	..	..	..	..	..	..
8. Whooping cough	40	33	6	1	1	..	..	..	..	..	..	..	..	..	..	..	..	23	17	....	40	..	..	40	..	..	1	4	4	2	..	4	7	7	4	..	5	2
9. Diphtheria and croup	34	5	4	1	5	5	11	3	..	..	..	..	..	..	..	..	..	12	22	....	33	1	....	34	..	..	4	11	2	2	1	1	1	1	1	1	4	5
10. Influenza	10	..	1	..	..	..	..	..	..	1	2	1	2	..	1	..	2	4	6	....	6	1	3	4	2	4	1	1	4	2	..	1	..	1	..	..	..	..
13. Cholera nostras	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
14. Dysentery	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
18. Erysipelas	2	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	2	..	....	1	1	....	2	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	5	..	..	..	..	..	1	..	..	1	1	1	1	..	..	..	..	4	1	....	4	1	....	2	3	..	..	1	..	..	2	..	1	..	..	..	1	..
28. Tuberculosis of the lungs	127	..	1	..	..	1	..	2	12	42	23	14	14	7	3	1	2	67	60	....	98	21	8	54	67	6	7	18	16	12	12	10	11	8	7	11	9	6
30. Tuberculous meningitis	5	2	1	..	..	1	1	..	..	..	..	..	..	..	..	..	..	2	3	....	5	..	..	5	..	..	..	1	1	..	..	1	1	..	..	1	..	..
31. Abdominal tuberculosis	2	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	2	....	2	..	..	1	1	..	..	..	..	..	..	1	..	..	..	..	..	..	1
32. Pott's disease	4	..	..	..	..	..	1	1	..	1	..	1	..	..	..	..	..	3	1	....	4	..	..	3	1	..	..	..	..	..	3	1	..	..	..	..	..	..	..
33. White swelling	2	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	2	..	....	1	1	....	1	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..
34. Tuberculosis of other organs	3	..	..	..	..	..	..	..	..	..	2	..	1	..	..	..	..	1	2	....	3	..	..	1	2	..	1	..	1	..	..	..	..	..	..	1	..	..
36. Rickets	3	1	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	....	3	..	..	3	..	..	..	..	..	..	..	..	..	1	..	1	1	..
37. Syphilis	4	1	..	..	..	..	..	..	..	1	..	1	1	..	..	..	..	3	1	....	1	2	1	3	1	..	..	2	..	..	1	1	..	..	..	..	..	..
38. Gonococcus infection	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	....	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	8	..	..	..	..	..	..	..	..	..	..	..	..	5	2	1	..	7	1	....	3	3	2	....	7	1	1	1	..	..	..	..	..	1	1	3	1	..
40. Cancer and other malignant tumors of the stomach, liver	28	..	..	..	..	..	..	..	..	..	..	5	9	6	7	..	1	13	15	....	16	10	2	3	25	....	1	1	2	3	..	2	..	3	7	2	6	1
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	10	..	..	..	..	..	..	..	..	..	..	2	2	2	2	1	1	4	6	....	8	2	....	3	7	....	1	1	1	1	..	..	..	2	..	..	3	1
42. Cancer and other malignant tumors of the female genital organs	6	..	..	..	..	..	..	..	..	..	1	1	2	1	1	..	..	..	6	....	4	1	....	..	6	....	..	..	1	..	..	..	..	1	1	2	..	..
43. Cancer and other malignant tumors of the breast	8	..	..	..	..	..	..	..	..	..	2	3	3	..	..	..	..	..	8	....	6	2	....	1	7	....	3	..	1	..	..	1	1	..	1	..	1	..
45. Cancer and other malignant tumors of other organs and of organs not specified	26	..	..	..	1	..	1	..	..	..	2	5	9	3	5	..	..	9	17	....	20	5	1	8	18	....	2	3	4	2	1	2	2	1	1	5	..	3
46. Other tumors (tumors of the female genital organs excepted)	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
47. Acute articular rheumatism	2	....	..	..	..	..	..	1	..	....	..	..	....	..	..	1	..	1	1	....	2	....	....	1	1	....	..	..	1	..	..	..	..	..	1	..	..	..
48. Chronic rheumatism and gout	10	....	..	..	..	..	..	..	..	....	1	1	1	4	3	..	..	6	4	....	7	3	....	3	7	....	..	2	2	..	..	1	..	2	..	1	1	1
50. Diabetes	14	....	..	..	..	..	..	1	1	3	..	..	2	4	2	..	1	7	7	....	8	5	1	4	9	1	..	2	1	..	1	1	1	..	2	1	3	2
53. Leucæmia	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	..	..	..	1
54. Anæmia, chlorosis	13	1	..	..	..	..	1	..	..	....	3	1	4	3	..	..	..	4	9	....	10	2	1	4	9	....	2	2	2	1	..	1	..	3	1	..	..	1
55. Other general diseases	5	3	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	3	2	....	5	....	....	3	2	....	..	..	..	..	1	..	..	..	1	1	2	..
56. Alcoholism (acute or chronic)	8	....	..	..	..	..	..	..	..	....	2	1	2	3	..	..	..	6	2	....	2	6	....	4	4	....	..	..	1	..	..	2	1	1	..	1	..	2
57. Chronic lead poisoning	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
59. Other chronic poisonings	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	149	22	7	2	1	2	3	2	1	3	7	9	12	21	33	21	3	68	81	....	114	31	1	56	88	5	15	19	16	11	17	18	12	8	10	12	14	4
60. Encephalitis	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
61. Simple meningitis	24	11	4	1	1	1	1	..	..	1	3	..	1	..	..	..	..	9	15	....	22	2	....	21	3	....	1	3	2	3	2	3	1	1	1	4	3	..
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
63. Other diseases of the spinal cord	3	1	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	1	2	....	2	1	....	2	1	....	..	..	..	..	..	1	..	..	1	..	..	1
64. Cerebral hæmorrhage, apoplexy	52	....	..	..	..	..	..	..	..	....	1	4	6	9	17	12	3	28	24	....	32	17	3	5	44	3	8	2	7	4	9	4	3	4	3	3	4	1
65. Softening of the brain	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
66. Paralysis without specified cause	34	....	..	..	..	..	..	..	..	1	..	..	3	9	13	8	..	14	20	....	24	9	1	5	28	1	2	4	2	2	3	5	1	2	5	4	3	1
68. Other forms of mental alienation	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..
69. Epilepsy	6	1	..	..	1	..	1	..	..	....	1	....	1	1	..	..	..	3	3	....	6	....	....	3	3	....	..	..	..	1	1	1	1	..	..	1	..
70. Convulsions (non-puerperal)	2	....	..	..	..	1	..	..	..	....	1	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	..	..	1	..	..	1	..	..	..	..	..	..
71. Convulsions of infants	12	9	3	..	..	..	..	..	..	....	..	..	....	..	..	..	..	6	6	....	12	....	....	12	....	....	1	3	2	..	..	1	3	..	..	..	2	..
73. Neuralgia and neuritis	3	....	..	..	..	..	..	..	..	....	..	2	1	..	..	..	..	1	2	....	3	....	....	....	2	1	1	..	..	..	..	..	1	..	..	..	1	..	..
74. Other diseases of the nervous system	7	....	..	..	..	..	1	..	..	1	1	2	1	1	..	..	..	1	6	....	7	....	....	2	5	....	1	..	2	..	2	1	1	..	..	..	..	..
75. Diseases of the eyes and their adnexa	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
76. Diseases of the ears	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
III. Diseases of the Circulatory System.																																						
Group Total	182	2	1	..	..	..	3	1	3	4	12	13	22	49	51	17	4	95	87	....	118	50	14	42	132	8	25	15	10	27	21	12	6	13	12	16	7	18
78. Acute endocarditis	15	....	..	..	..	..	2	..	..	1	5	2	1	2	2	..	..	5	10	....	9	6	....	5	9	1	3	1	1	2	2	1	..	2	1	2	..	..
79. Organic diseases of the heart	108	1	1	..	..	..	..	1	2	3	6	10	17	32	29	5	1	53	55	....	72	30	6	29	74	5	13	9	8	14	10	8	3	7	6	11	5	14
80. Angina pectoris	2	....	..	..	..	..	1	..	..	....	..	..	....	1	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	..	..	..	..	..	1	..	1
81. Diseases of the Arteries, atheroma, aneurysm, etc.	50	....	..	..	..	..	..	..	1	....	1	..	1	13	19	12	3	34	16	....	30	12	8	5	43	2	9	3	1	9	8	3	3	4	4	2	2	2
82. Embolism and thrombosis	5	....	..	..	..	..	..	..	..	....	..	..	3	1	1	..	..	2	3	....	4	1	....	1	4	....	..	2	..	2	..	..	..	..	1	..	..	..
83. Diseases of the veins, varices, hæmorrhoids, phlebitis, etc.)	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
84. Diseases of the lymphatic system (lymphangitis, etc.	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	197	65	19	7	1	3	2	1	4	5	13	11	13	22	14	17	..	114	83	....	167	28	2	120	73	4	11	16	26	41	35	13	4	5	7	9	18	12
87. Diseases of the larynx	6	5	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	4	2	....	6	....	....	5	1	....	..	..	..	2	1	2	..	..	1	..	..	..
88. Diseases of the thyroid body	2	....	..	..	..	..	..	..	..	....	..	..	1	..	1	..	..	1	1	....	2	....	....	....	2	....	..	..	..	1	1	..	..	..	..	..	..	..
89. Acute bronchitis	13	5	3	..	..	1	..	..	..	....	..	1	....	1	1	1	..	6	7	....	9	4	....	9	4	....	1	..	..	3	4	3	..	..	1	..	1	..

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CARLETON—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	**13**	3	..	..	..	..	1	..	..	1	..	..	..	2	2	4	..	8	5	....	12	1	....	6	5	2	2	..	3	3	..	..	1	..	1	2	..	1
142. Gangrene	8	....	..	..	..	..	..	..	..	....	..	..	..	2	2	4	..	4	4	....	7	1	....	1	5	2	1	..	2	2	..	..	1	..	..	1	..	1
143. Furuncle	1	....	..	..	..	..	1	..	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
144. Acute abscess	3	2	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	3	....	....	3	....	....	3	....	....	1	..	..	..	..	..	..	1	1	..	..
145. Other diseases of the skin and adnexa	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
IX.—Diseases of the Bones and of the Organs of Locomotion.																																						
Group Total	**2**	1	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	1	..	1	..	..	..	..	..
146. Diseases of the bones (tuberculosis excepted)	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
147. Diseases of the joints (tuberculosis and rheumatism excepted)	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
X.—Malformations.																																						
Group Total	**15**	15	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	8	7	....	15	....	....	15	....	....	1	2	..	2	..	..	1	1	5	..	3	..
150. Congenital malformations (still-births not included)	15	15	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	8	7	....	15	....	....	15	....	....	1	2	..	2	..	..	1	1	5	..	3	..
XI.—Diseases of Early Infancy.																																						
Group Total	**279**	279	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	151	128	....	279	....	....	279	....	....	15	15	21	22	37	16	48	25	21	20	25	14
151. Congenital debility, icterus, and sclerema	267	267	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	142	125	....	267	....	....	267	....	....	15	15	20	20	32	14	48	23	21	20	25	14
152. Other diseases peculiar to early infancy	11	11	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	8	3	....	11	....	....	11	....	....	..	..	1	2	4	2	..	2	..	..	..	..
153. Lack of care	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
XII.—Old Age.																																						
Group Total	**147**	....	..	..	..	..	..	..	..	....	..	..	..	..	58	86	3	81	66	....	72	58	17	7	126	14	16	17	15	14	4	5	11	12	14	10	12	17
XIII.—Affections Produced by External Causes.																																						
Group Total	**72**	1	..	4	1	2	7	3	3	8	11	10	6	10	1	2	3	50	22	....	56	11	5	37	31	4	3	5	5	2	4	8	11	8	6	4	5	11
155. Suicide by poison	1	....	..	..	..	..	..	..	..	....	1	..	..	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
159. Suicide by firearms	3	....	..	..	..	..	..	..	..	1	1	..	1	..	..	..	..	3	....	....	3	....	....	1	2	....	..	..	..	..	3	..	..	..	..	..	..	..
165. Other acute poisonings	4	....	..	1	..	..	..	..	..	....	1	1	1	..	..	..	..	3	1	....	3	1	....	2	2	....	..	..	..	..	..	2	1	1	..	..	..	..
166. Conflagration	3	....	..	1	..	..	1	1	..	....	..	..	..	..	..	..	..	1	2	....	3	....	....	3	....	....	..	..	..	..	..	..	..	..	..	..	3	..

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	166	26	1	2	3	1	4	3	5	13	8	10	11	20	30	27	2	95	71	.....	108	35	23	55	104	7	13	17	24	13	16	11	8	12	10	15	14	13
I.—General Diseases.																																						
Group Total	41	2	1	1	..	1	2	1	1	3	4	5	1	8	7	3	1	21	20	....	29	8	4	14	25	2	3	4	6	1	5	6	1	3	2	3	4	3
8. Whooping cough	1	1	..	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
9. Diphtheria and croup	1	....	..	..	..	..	1	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	1	..	..	..	..
10. Influenza	3	....	..	..	..	..	..	..	..	..	....	..	..	....	2	1	..	..	2	1	....	....	2	1	....	3	....	1	1	..	..	..	..	..	1	..	..	..	..
14. Dysentery	1	....	..	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..
18. Erysipelas	1	1	..	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	2	....	..	..	..	..	1	1	..	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	..	..	..	..	..	1	..	..	..	..	1	..
28. Tuberculosis of the lungs	7	....	..	..	..	1	..	..	1	1	..	1	....	2	....	..	1	..	3	4	....	7	....	....	2	4	1	..	..	1	..	1	1	..	..	1	1	1	1
32. Pott's disease	2	....	..	..	..	..	..	..	..	....	2	..	..	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	1	..	..	..	..	..	..	1
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	..	1	....	....	1	....	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	4	....	..	..	..	..	..	..	..	....	..	..	2	1	1	..	..	3	1	....	2	....	2	....	4	....	..	1	2	..	..	1	..	..	..	..	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	2	....	..	..	..	..	..	..	..	....	..	2	....	..	..	..	..	....	2	....	2	....	....	....	2	....	..	..	..	..	..	..	..	..	..	1	1	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
44. Cancer and other malignant tumors of the skin	1	....	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	....	1	....	....	....	1	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	4	....	..	..	..	..	..	..	..	....	1	..	....	2	1	..	..	....	4	....	2	2	....	....	3	1	..	1	..	..	..	1	..	..	1	..	..	1
47. Acute articular rheumatism	1	....	..	..	..	..	..	..	..	....	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	..	..	....	..	1	....	..	..	1	..	..	1	1	....	1	1	....	1	....	....	1	..	..	..	1	..	..	..	..	..	..	..
49. Scurvy	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..
50. Diabetes	3	....	..	..	..	..	..	..	..	....	1	..	....	1	1	..	..	..	3	....	....	1	2	....	2	1	....	..	..	1	..	1	..	..	..	..	..	..	..
54. Anæmia, chlorosis	3	....	1	..	..	..	..	..	..	1	..	1	....	..	..	..	..	..	1	2	....	3	....	....	1	2	....	..	..	1	..	1	..	..	1	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	13	1	..	..	1	..	..	1	..	....	..	..	1	2	5	1	1	6	7	....	8	2	3	3	10	....	1	1	..	1	2	..	1	..	3	2	1	1
61. Simple meningitis	2	....	..	..	1	..	..	1	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	1	1	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	5	....	..	..	..	..	..	..	..	....	..	..	....	1	3	1	..	3	2	....	2	1	2	....	5	....	1	..	..	..	1	..	1	..	1	..	..	..	1
66. Paralysis without specified cause	3	....	..	..	..	..	..	..	..	....	..	..	1	1	..	1	..	1	2	....	1	1	1	....	3	....	....	..	..	..	..	..	..	..	1	1	1	..
68. Other forms of mental alienation	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
69. Epilepsy	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
71. Convulsions of infants	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
X.—Malformations.																																						
Group Total	4	4																1	3		4			4					1		1			1		1		
150. Congenital malformations (still-births not included)	4	4																1	3		4			4					1		1			1		1		
XI.—Diseases of Early Infancy.																																						
Group Total	9	9																4	5		9			9			1							2	2	3	1
151. Congenital debility, icterus, and sclerema	8	8																4	4		8			8			1							2	2	2	1
153. Lack of care	1	1																	1		1			1												1		
XII.—Old Age.																																						
Group Total	16														3	13		8	8		2	11	3		16			2	4	2	2	2	2	1		1	
XIII.—Affections Produced by External Causes.																																						
Group Total	7						1			1		1	3			1		5	2		6	1		2	5		1		1					1		1		2
170. Traumatism by firearms	1												1					1			1				1		1										
176. Injuries by animals	2						1					1						2			2			1	1											1	1
185. Fractures (causes not specified)	4									1			2			1		2	2		3	1		1	3				1				1		1		1
XIV.—Ill-Defined Diseases.																																						
Group Total	2												1			1			2		1		1		2				1					1				
189. Cause of death not specified or ill-defined	2												1			1			2		1		1		2				1					1				
Still-Births.																																						
Not included in totals	6	6																3	3		6			6							1	1		1			2	1

CAUSES OF DEATH IN THE COUNTY OF ELGIN, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	539	60		12	9	4	2	12	4	11	24	31	23	42	98	114	84	9	272	267	.....	353	114	72	165	310	64	41	56	51	46	42	38	39	35	42	46	47	56
I.—General Diseases. **Group Total**	126	8	5	3	2	1	4	1	4	9	9	6	16	32	17	4	5	50	76	....	90	18	19	42	68	16	7	14	13	12	7	9	10	14	8	12	10	10
1. Typhoid fever	6	....	..	..	..	..	..	..	..	2	1	1	..	2	..	..	..	..	2	4	....	5	1	....	3	3	....	..	1	..	1	..	..	..	1	..	3	..	..
7. Scarlet fever	1	....	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	1	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
8. Whooping cough	9	4	3	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	5	4	....	9	....	....	9	....	....	..	1	..	..	2	1	1	1	1	..	..	..
9. Diphtheria and croup	2	....	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	....	2	....	....	2	....	....	2	..	..	..	..	..	..	..	..	..	..	..
10. Influenza	4	1	..	..	..	..	1	..	..	1	..	..	..	..	1	..	..	..	2	2	....	3	....	1	3	1	....	..	1	..	..	1	..	..	1	1	..	..	..
14. Dysentery	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	1	1	..	..
18. Erysipelas	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	19	....	..	..	..	..	..	..	2	5	3	2	2	3	1	..	1	..	7	12	....	13	3	3	7	9	3	1	5	3	1	..	..	3	2	1	..	2	1
30. Tuberculous meningitis	4	....	..	1	..	1	1	..	..	..	..	..	..	..	..	..	..	..	....	4	....	4	....	....	4	....	....	..	..	..	1	1	..	..	..	1	..	..	..
31. Abdominal tuberculosis	2	....	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	....	2	....	....	1	1	1	1	....	..	..	..	1	..	1	..	..	..	..	..	..
34. Tuberculosis of other organs	1	....	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
36. Rickets	1	....	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	2	....	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	1	1	....	1	....	1	....	2	....	..	..	..	..	..	..	..	1	..	..	..	1
40. Cancer and other malignant tumors of the stomach, liver	19	....	..	..	..	..	..	..	..	..	..	1	1	11	4	2	..	..	12	7	....	12	2	5	1	13	5	1	1	2	1	1	2	2	2	1	2	2	2
42. Cancer and other malignant tumors of the female genital organs	3	....	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	1	....	3	....	1	1	1	....	3	....	..	..	..	1	2	..	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	4	....	..	..	..	..	..	..	..	..	..	..	1	1	1	1	..	..	....	4	....	4	....	....	1	2	1	1	1	..	..	..	..	1	1	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	12	....	..	..	..	..	..	..	..	..	..	1	1	3	2	4	..	1	4	8	....	7	3	2	1	9	2	..	1	1	2	..	1	..	1	1	..	4	1
47. Acute articular rheumatism	1	....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	1	..	..	..	..	..	1	1	..	..	..	....	2	....	1	1	....	....	2	....	..	1	..	..	..	..	..	1	..	..	..	..
50. Diabetes	8	....	..	..	..	..	1	..	..	..	1	..	..	..	1	2	..	..	1	7	....	6	2	....	1	7	....	..	1	1	2	1	..	1	1	..	..	..	1
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..
53. Leucæmia	2	....	..	..	..	..	..	..	..	..	..	..	1	....	1	..	..	..	1	1	....	2	....	....	....	1	1	..	..	1	..	..	..	..	1	..	..	..	..
54. Anæmia, chlorosis	17	....	..	1	..	..	..	..	..	1	1	1	5	6	2	..	..	..	8	9	....	11	2	4	2	12	3	1	1	2	2	1	3	1	1	3	..	1
55. Other general diseases	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	43	4	1	1	1	..	..	..	..	....	2	1	2	8	15	7	1	22	21	....	23	14	6	11	27	5	4	8	3	4	4	2	2	1	2	6	3	4
61. Simple meningitis	3	1	1	..	..	..	..	..	..	....	1	..	..	..	..	..	..	3	..	....	3	..	....	2	1	..	..	..	..	2	..	..	1	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	17	..	..	..	..	..	..	..	..	....	..	..	2	2	10	3	..	8	9	....	9	7	1	2	13	2	2	1	2	1	1	1	..	..	..	5	1	3
65. Softening of the brain	1	..	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	..	1	....	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..
66. Paralysis without specified cause	15	..	..	..	..	..	..	..	..	....	..	..	..	5	5	4	1	7	8	....	6	1	5	2	10	3	2	6	1	..	2	..	1	1	..	1	..	1
68. Other forms of mental alienation	1	..	..	..	..	..	..	..	..	....	..	1	..	..	..	..	..	1	..	....	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..
69. Epilepsy	1	..	..	1	..	..	..	..	..	....	..	..	..	..	..	..	..	..	1	....	..	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..
70. Convulsions (non-puerperal)	2	..	1	..	..	..	..	..	..	....	1	..	..	..	..	..	..	2	..	....	1	1	..	2	..	..	..	..	..	..	1	..	..	..	..	..	1	..
71. Convulsions of infants	3	3	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	2	....	3	..	..	3	..	..	..	..	..	1	..	..	..	..	2	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	79	..	..	..	..	1	..	..	3	4	4	8	23	21	12	..	45	34	....	46	19	14	12	58	9	9	5	4	13	5	8	5	5	10	5	4	6
77. Pericarditis	1	..	..	..	..	..	..	..	..	....	..	1	..	..	..	..	..	..	1	....	1	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..
78. Acute endocarditis	1	..	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	..	1	....	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
79. Organic diseases of the heart	55	..	..	..	..	1	..	..	3	4	3	6	16	16	6	..	28	27	....	32	12	11	9	38	8	5	5	3	13	4	2	4	4	5	4	2	4
80. Angina pectoris	1	..	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	1	..	....	..	..	1	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..
81. Diseases of the Arteries, atheroma, aneurysm, etc.	21	..	..	..	..	..	..	..	..	....	..	..	2	5	8	6	..	16	5	....	13	6	2	3	17	1	4	..	1	..	..	6	1	1	5	..	2	1
IV.—Diseases of the Respiratory System.																																						
Group Total	45	5	3	2	1	..	4	..	..	....	1	2	3	11	8	5	..	22	23	....	32	8	5	18	24	3	4	6	5	4	2	3	1	1	2	3	7	7
87. Diseases of the larynx	1	..	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	1	..	....	1	..	....	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..
89. Acute bronchitis	2	1	1	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	2	....	2	..	....	2	..	..	..	..	..	1	..	..	..	..	..	..	..	1
90. Chronic bronchitis	8	..	..	..	1	..	..	..	..	....	..	..	..	3	3	1	..	4	4	....	5	..	3	1	7	..	1	1	..	..	1	2	..	1	1	..	1	..
91. Broncho-pneumonia	4	1	..	1	..	..	..	..	..	....	..	..	..	..	2	..	..	3	1	....	3	1	..	2	2	..	..	..	1	1	..	..	..	..	..	..	..	2
92. Pneumonia	25	3	2	1	..	3	..	..	..	....	1	2	7	2	4	..	11	14	....	17	6	2	12	11	2	3	5	3	1	1	..	1	..	1	3	4	3
93. Pleurisy	3	..	..	..	..	1	..	..	..	....	1	1	..	..	..	..	..	2	1	....	3	..	..	1	2	..	..	..	1	..	..	1	..	..	..	..	1	..
98. Other diseases of the respiratory system (tuberculosis excepted)	2	..	..	..	..	..	..	..	..	....	..	..	1	..	1	..	..	1	1	....	1	1	....	..	2	..	..	..	..	..	..	..	..	..	..	1	1
V.—Diseases of the Digestive System.																																						
Group Total	33	4	2	1	..	1	1	2	2	1	3	1	1	8	3	2	1	15	18	....	23	9	1	14	17	2	1	3	2	2	5	1	4	3	4	1	2	5
102. Ulcer of the stomach	1	..	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	..	1	....	..	1	....	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	1	....	1	..	....	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..
104. Diarrhœa and enteritis (under 2 years)	4	2	2	..	..	..	..	..	..	....	..	..	..	..	..	..	..	2	2	....	4	..	....	4	..	..	..	..	..	..	..	..	..	1	1	1	..	..
105. Diarrhœa and enteritis (2 years and over)	5	..	..	1	..	1	..	..	..	....	..	..	..	1	1	..	1	3	2	....	3	2	....	2	2	1	..	..	..	..	..	1	..	1	..	..	..	3
108. Appendicitis and typhlitis	3	..	..	..	..	..	1	1	1	....	..	..	..	..	..	..	..	1	2	....	3	..	....	3	..	..	..	..	..	1	..	..	1	..	1	..	..	..
109. Hernias, intestinal obstructions	4	..	..	..	..	..	..	..	..	....	1	..	..	2	..	1	..	3	1	....	..	4	....	..	3	1	..	1	..	..	1	..	..	..	..	..	2	..
110. Diseases of the intestines	1	..	..	..	..	..	..	..	..	....	..	..	..	..	..	1	..	..	1	....	..	1	....	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..
113. Cirrhosis of the liver	1	..	..	..	..	..	..	..	..	....	..	1	..	..	..	..	..	1	..	....	1	..	....	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
115. Other diseases of the liver	4	..	..	..	..	..	..	..	..	....	..	..	1	1	2	..	..	2	2	....	4	..	....	1	3	..	..	..	1	1	..	1	..	..	..	..	..	1
117. Simple peritonitis (non-puerperal)	8	1	..	..	..	..	1	1	1	2	..	..	..	2	..	..	..	3	5	....	6	1	1	3	5	..	..	1	..	1	..	..	2	1	2	..	..	1
118. Other diseases of the digestive system (cancer and tuberculosis excepted)	1	..	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	..	1	....	1	..	....	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
XIII.—Affections Produced by External Causes.																																						
Group Total	26	....	..	..	..	..	..	..	2	6	2	4	3	2	4	2	1	20	6	....	15	6	5	8	14	4	..	..	1	2	3	..	2	5	3	5	2	3
158. Suicide by drowning	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
165. Other acute poisonings	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	1	..	..	..
167. Burns (conflagration excepted)	2	....	..	..	..	..	..	..	..	....	..	1	1	..	..	..	..	1	1	....	1	....	1	....	2	....	..	..	..	..	..	..	..	1	..	1	..	..
168. Absorption of deleterious gases (conflagration excepted)	2	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	1	1	....	1	1	....	....	2	....	..	..	..	..	..	..	..	1	..	1	..	..
169. Accidental drowning	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
172. Traumatism by fall	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
175. Traumatism by other crushing (vehicles, rail road, landslides, etc.)	4	....	..	..	..	..	..	..	..	3	1	..	....	..	..	..	..	4	....	....	4	....	....	1	2	1	..	..	..	..	..	..	1	..	..	..	1	2
176. Injuries by animals	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
178. Excessive cold	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
181. Electricity (lightning excepted)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	1	1	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
185. Fractures (causes not specified)	8	....	..	..	..	..	..	..	1	1	..	1	1	..	2	1	1	6	2	....	5	2	1	4	4	....	..	..	..	..	2	..	1	1	1	2	1	..
186. Other external violence	3	....	..	..	..	..	..	..	..	....	1	1	....	..	1	..	..	3	....	....	....	1	2	....	2	1	..	..	..	1	..	..	..	2	..	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	23	....	1	2	..	..	2	..	..	3	5	..	5	4	..	1	..	10	13	....	14	6	3	9	10	4	1	1	1	2	1	1	2	..	3	3	5	3
188. Sudden death	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
189. Cause of death not specified or ill-defined	22	....	1	2	..	..	2	..	..	3	5	..	5	4	..	..	..	9	13	....	13	6	3	9	9	4	1	1	1	2	1	1	2	..	3	2	5	3
Still-Births.																																						
Not included in totals	30	30	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	14	15	1	30	....	....	30	....	....	4	4	3	5	1	3	1	1	3	..	4

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	808	168	16	16	4	3	14	14	16	53	52	46	70	105	124	86	21	419	389	.....	553	161	94	330	429	49	82	63	70	61	74	52	77	69	58	78	54	70
I.—General Diseases.																																						
Group Total	203	9	4	6	3	2	6	3	8	24	26	19	28	31	21	9	4	82	121	....	137	36	30	71	120	12	19	16	19	12	13	11	20	19	18	21	16	16
1. Typhoid fever	25	....	..	1	..	..	..	2	4	4	4	3	2	4	1	..	..	12	13	....	21	3	1	12	13	....	2	1	..	3	..	1	..	1	5	..	8	4
7. Scarlet fever	3	....	..	1	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	2	....	3	....	....	3	....	....	1	1	..	..	..	..	..	..	..	1	..	..
8. Whooping cough	8	4	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4	....	8	....	....	8	....	....	..	..	1	1	..	1	2	3	..	..	..	..
9. Diphtheria and croup	7	2	..	2	..	1	2	..	..	..	..	..	..	..	..	..	..	..	..	7	....	7	....	....	7	....	....	..	..	1	..	1	..	1	..	..	3	1	..
10. Influenza	10	....	..	..	..	..	2	..	..	..	..	1	....	1	3	3	..	..	5	5	....	5	4	1	2	7	1	1	2	1	..	..	1	..	..	1	..	3	..
14. Dysentery	4	....	1	..	..	..	..	..	..	1	1	..	....	..	..	..	1	..	2	2	....	3	1	....	1	2	1	..	..	..	..	..	..	1	2	1	..	..	..
18. Erysipelas	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
19. Other epidemic diseases	1	....	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	..	1	..	....	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
24. Tetanus	2	....	..	..	..	..	1	..	..	....	1	..	....	..	..	..	..	..	1	1	....	1	1	....	1	1	....	1	..	..	..	..	..	..	..	1	..	..	..
25. Mycoses	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	....	1	....	....	..	1	....	..	..	..	..	..	..	..	..	..	..	1	..
28. Tuberculosis of the lungs	48	....	..	1	..	..	..	..	3	14	12	4	6	5	2	..	1	16	32	....	31	7	10	17	28	3	3	5	6	6	5	3	4	3	2	3	2
29. Acute miliary tuberculosis	2	....	..	..	..	1	..	..	..	....	1	..	....	..	..	..	..	..	2	..	....	1	1	....	2	....	....	2	..	..	..	..	..	..	..	..	..	..	..
30. Tuberculous meningitis	4	1	..	..	..	..	..	..	..	....	2	..	....	..	..	..	1	..	1	3	....	3	....	1	2	2	....	2	..	..	..	..	..	..	..	2	..	..	..
31. Abdominal tuberculosis	4	....	..	..	..	..	..	..	..	1	2	..	1	..	..	..	..	..	..	4	....	4	....	....	..	4	....	..	..	..	1	1	..	1	..	1	..	..	..
34. Tuberculosis of other organs	3	....	..	..	..	..	..	..	..	..	..	1	....	1	1	..	..	..	1	2	....	1	1	1	2	1	....	..	1	1	..	..	1	..	..	..	..	..	..
36. Rickets	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
37. Syphilis	1	....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	9	....	..	..	..	..	..	..	..	..	..	1	....	3	3	2	..	..	3	6	....	3	3	3	....	7	2	..	1	1	..	..	2	1	2	..	1	..	1
40. Cancer and other malignant tumors of the stomach, liver	10	....	..	..	..	..	..	..	..	1	..	1	3	1	2	2	..	..	6	4	....	4	5	1	1	9	....	1	..	..	..	..	..	2	2	1	2	1	1
41. Cancer and other malignant tumors of the peritoneum, intestines, rectum	6	....	..	..	..	..	..	..	..	..	..	1	3	2	..	..	..	..	3	3	....	2	2	2	1	5	....	..	..	1	..	..	2	..	..	1	2	..	..
42. Cancer and other malignant tumors of the female genital organs	6	....	..	..	..	..	..	..	..	..	2	2	1	..	1	..	..	....	6	....	3	1	2	1	5	....	1	..	2	..	..	..	1	1	..	1	..	..	..
43. Cancer and other malignant tumors of the breast	4	....	..	..	..	..	..	..	..	..	..	1	1	1	..	1	..	....	4	....	1	....	3	1	3	....	..	2	..	1	..	..	1	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	10	....	..	..	..	..	..	..	..	..	..	1	2	4	1	1	1	5	5	....	7	1	2	1	9	....	3	..	..	..	2	1	..	..	3	1	..	..
46. Other tumors (tumors of the female genital organs excepted)	1	....	..	..	..	..	..	..	..	..	..	..	....	1	..	..	..	..	1	..	....	..	1	....	..	1	....	..	..	..	1	..	..	..	..	..	..	..	..
47. Acute articular rheumatism	3	....	..	..	..	..	..	..	..	..	..	2	1	..	..	..	..	..	2	1	....	1	1	1	2	....	....	..	..	1	..	1	..	..	..	..	1	..	..
48. Chronic rheumatism and gout	4	....	..	..	..	..	..	..	..	2	..	1	....	..	1	..	..	..	2	2	....	3	....	1	1	2	1	1	..	..	..	..	..	2	..	..	..	..	1

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
50. Diabetes	8						1							3	4			1	7		6	1	1	1	6	1		1			2			2		1	1	1
53. Leucæmia	2									1			1					2			2			1		1		1										1
54. Anæmia, chlorosis	13								1				6	4	2			6	7		11	2		1	10	2	1		3			1	1	2	2	2	1	
56. Alcoholism (acute or chronic)	1												1					1				1			1												1
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	65	13	3	5				3	1	1	2	2	6	12	12	5		34	31		48	12	5	29	31	5	9	6	5	5	7	8	4	4	1	4	7	5
61. Simple meningitis	13	7	2	2			1						1					9	4		12	1		12	1		2	2			1	2	1	2			1	2
63. Other diseases of the spinal cord	3	1							1					1					3		2	1		2	1			1	1		1						
64. Cerebral hæmorrhage, apoplexy	24			1								1	1	9	8	4		12	12		16	4	4	5	16	3	5	1		3	3	3	1	2		3	3	
66. Paralysis without specified cause	10							1			1	1	2		4	1		6	4		5	5		1	8	1	2		2		1	2	2		1			
69. Epilepsy	3							1					2					1	2		2		1	1	2											1	
70. Convulsions (non-puerperal)	1									1								1			1					1		1									
71. Convulsions of infants	8	5	1	2														3	5		8			8				1		1	1	1				2	2
73. Neuralgia and neuritis	2										1			1				1	1		1	1			2											1	
74. Other diseases of the nervous system	1													1				1			1				1												1
III.—Diseases of the Circulatory System.																																						
Group Total	119						1		1	6	3	6	17	38	32	13	2	64	55		67	40	12	11	99	9	10	10	13	12	7	10	5	8	7	12	6	19
78. Acute endocarditis	3												2				1	1	2		2	1			3			2										1
79. Organic diseases of the heart	67						1		1	5	2	5	11	22	14	5	1	35	32		39	21	7	7	56	4	6	6	8	6	5	4	3	4	5	7	4	9
80. Angina pectoris	1										1							1			1					1					1							
81. Diseases of the Arteries, atheroma, aneurysm, etc.	47											1	4	16	18	8		27	20		24	18	5	3	40	4	4	2	5	6	1	6	2	4	2	5	2	8
82. Embolism and thrombosis	1									1									1		1			1														1
IV.—Diseases of the Respiratory System.																																						
Group Total	68	18	3	3			1			4	2	6	4	7	15	5		40	28		53	8	7	33	33	2	16	8	6	8	6	1	2	3	5	5	3	5
87. Diseases of the larynx	1	1																	1		1			1										1				
89. Acute bronchitis	6	3	2												1			4	2		6			5	1					1	2	1			1		1	
90. Chronic bronchitis	6													1	3	2		1	5		5	1			6		2	2			1		1					
91. Broncho-pneumonia	13	7	1	1						1			1	1	1			9	4		12		1	10	3		1	2	2	1					3	1	1	2
92. Pneumonia	36	7		1			1			3	2	5	2	5	8	2		23	13		24	7	5	15	19	2	12	4	2	4	4	1	1	2		3	2	1
93. Pleurisy	2											1	1						2		1		1	1	1		1		1									
94. Pulmonary congestion, pulmonary apoplexy	4			1											2	1		3	1		4			1	3				1					1			2
V.—Diseases of the Digestive System.																																						
Group Total	69	38	4			1	1	2	3	6	3	3	2	3			3	39	30		59	4	6	53	13	3	6	6	4	1	1	16	9	10	9	3	4
100. Diseases of the pharynx	2	1															1		2		1		1	2			2											
102. Ulcer of the stomach	1											1							1					1														
103. Other diseases of the stomach (cancer excepted)	7	5							1					1				6	1		7			5	1	1	1						2	1		2	1	
104. Diarrhœa and enteritis (under 2 years)	33	29	4															21	12		33			33				1	1	1			9	7	9	3		2
105. Diarrhœa and enteritis (2 years and over)	2					1								1				1	1		2			1		1							1		1		
108. Appendicitis and typhlitis	5							2		2	1							1	4		3	2		4	1		1	1	1			1			1		
109. Hernias, intestinal obstructions	8	3					2				2			1				4	4		5	2	1	5	3		1	3	1		1			1		1	
110. Diseases of the intestines	1																1	1					1			1									1		
113. Cirrhosis of the liver	1												1					1			1				1												
115. Other diseases of the liver	4									1		1		1		1		2	2		4			2	2		1					1			1	1	
117. Simple peritonitis (non-puerperal)	5						1			3			1					2	3		3		2	1	4							2			1		2

| | | |

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
160. Suicide by cutting or piercing instruments	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
163. Other suicides	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
165. Other acute poisonings	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	1
167. Burns (conflagration excepted)	2	....	..	..	..	..	..	..	..	1	..	..	....	..	1	..	..	2	....	....	....	2	....	....	2	....	..	..	..	..	2	3	4	1	..	2	..	..
169. Accidental drowning	12	1	..	1	1	..	1	2	1	1	1	2	....	..	..	..	1	9	3	....	6	1	5	8	3	1	..	..	..	..	..	..	..	..	..	..	..	..
170. Traumatism by firearms	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
172. Traumatism by fall	2	....	..	..	..	..	1	..	..	....	..	..	....	..	..	1	..	1	1	....	2	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
175. Traumatism by other crushing (vehicles, rail road, landslides, etc.)	11	....	..	..	..	..	1	..	2	3	1	3	1	..	..	..	9	2	....	7	3	1	4	5	2	..	..	..	..	3	2	..	2	1	1	2
176. Injuries by animals	1	....	..	..	..	1	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..	..
179. Effects of heat	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
180. Lightning	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	1	....	1	1	....	..	..	..	..	..	..	1	..	..	..	..	..
181. Electricity (lightning excepted)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	....	1	....	....	....	..	..	..	..	..	..	..	..	..	..	..	..
185. Fractures (causes not specified)	8	....	..	..	..	..	1	..	....	..	..	..	2	2	2	1	..	6	2	....	4	3	1	2	6	....	..	..	1	1	..	2	..	..	..	1	1	1
186. Other external violence	4	....	..	1	..	..	1	..	..	1	..	..	....	1	..	..	..	4	....	....	3	....	1	3	1	....	..	..	..	1	..	..	..	2	..	..	..	1	..
XIV.—Ill-Defined Diseases.																																						
Group Total	18	....	1	..	..	..	..	1	..	2	4	1	2	2	2	..	3	10	8	....	6	6	6	4	11	3	3	1	2	1	6	..	1	2	..	2	..	..
188. Sudden death	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	....	1	1	....	1	..	..	..	..	1	..	..	..	..	..	..	..
189. Cause of death not specified or ill-defined	17	....	1	..	..	..	1	..	2	4	1	2	2	1	..	3	9	8	....	6	6	5	4	10	3	3	1	2	1	5	..	1	2	..	2	..	..
Still-Births.																																						
Not included in totals	62	62	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	35	27	....	62	....	....	62	....	....	10	2	5	8	1	6	..	3	10	4	4	9

CAUSES OF DEATH IN THE COUNTY OF FRONTENAC, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	705	93	15	2	5	4	15	0	12	58	56	55	75	86	108	101	11	384	321	....	436	143	126	287	358	60	53	52	63	75	62	49	66	52	63	53	59	58
I.—General Diseases.																																					
Group Total	160	15	1	1	2	2	6	3	6	20	26	17	23	15	17	3	3	78	82	....	112	26	22	78	69	13	12	15	13	19	13	10	14	13	13	12	14	12
1. Typhoid fever	7	....	..	..	..	..	..	..	1	....	2	3	1	..	..	..	..	5	2	....	5	2	....	3	3	1	..	1	1	1	..	..	1	1	1	..	..	1
6. Measles	1	....	..	..	..	..	1	..	..	....	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
7. Scarlet fever	4	1	..	..	1	1	..	..	1	....	..	..	..	..	..	..	..	3	1	....	4	....	....	4	....	....	..	..	1	1	..	1	..	..	..	..	..	1
8. Whooping cough	13	12	..	..	..	..	..	..	..	....	..	..	..	..	..	..	1	8	5	....	13	....	....	13	....	....	2	1	..	2	..	1	3	3	1	..	2	..
9. Diphtheria and croup	8	....	..	..	1	1	4	..	..	2	..	..	..	..	..	..	..	4	4	....	6	....	2	7	1	....	..	..	..	..	1	..	2	1	..	2	..	2
10. Influenza	4	1	..	..	..	..	..	1	....	1	1	..	..	..	..	..	..	2	2	....	2	2	....	2	1	1	..	..	1	1	1	..	..	..	1	..	..	..
14. Dysentery	1	....	..	..	..	..	..	..	..	....	..	..	..	..	1	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
20. Purulent infection and septicæmia	4	....	..	..	..	..	..	..	..	....	1	..	2	1	..	..	..	2	2	....	2	....	2	....	3	1	..	..	..	3	..	..	..	..	..	..	1	..
24. Tetanus	1	....	..	..	..	..	..	..	..	....	1	..	..	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	49	....	..	..	..	..	1	1	16	17	5	4	2	3	..	..	..	24	25	....	31	10	8	27	18	4	4	6	6	3	7	1	5	1	2	8	7	..
29. Acute miliary tuberculosis	2	....	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	1	..	..	..	1	..	..	..
30. Tuberculous meningitis	1	....	..	..	..	..	..	..	1	....	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
34. Tuberculosis of other organs	4	....	..	..	..	..	1	..	..	1	..	1	....	..	1	..	..	....	4	....	3	....	1	1	3	....	..	..	..	1	..	1	..	..	..	..	..	2
37. Syphilis	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	2	....	..	..	..	..	..	..	..	....	..	..	2	..	..	..	..	2	....	....	1	1	....	....	1	1	..	1	..	1	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	19	....	..	..	..	..	..	..	..	....	1	5	4	2	6	1	..	10	9	....	16	2	1	2	16	1	1	2	..	2	3	1	3	1	1	1	1	3
41. Cancer and other malignant tumors of the peritoneum, intestines, rectum	4	....	..	..	..	..	..	..	..	....	..	..	1	3	..	..	..	4	....	....	2	....	2	....	2	2	1	..	1	..	..	..	..	1	..	..	..	1
42. Cancer and other malignant tumors of the female genital organs	4	....	..	..	..	..	..	..	..	....	..	..	1	..	3	..	..	....	4	....	4	....	....	2	2	....	..	1	..	..	..	1	1	..	..	1	..	..
43. Cancer and other malignant tumors of the breast	2	....	..	..	..	..	..	..	..	....	..	1	....	..	1	..	..	....	2	....	1	....	1	1	1	....	..	..	..	1	..	..	..	1	..	..	..	..
44. Cancer and other malignant tumors of the skin																																					
45. Cancer and other malignant tumors of other organs and of organs not specified	3	....	..	..	..	..	..	..	..	....	..	..	1	..	1	1	..	1	2	....	1	1	1	....	3	....	..	..	..	1	..	..	1	..	1	..	..	..
47. Acute articular rheumatism	11	....	..	1	..	..	..	..	..	....	1	1	3	2	1	..	2	4	7	....	6	2	3	5	4	2	3	1	..	..	..	..	3	..	..	..	2	2
48. Chronic rheumatism and gout	3	....	..	..	..	..	..	1	1	....	..	..	..	..	1	..	..	3	....	....	2	1	....	2	1	....	..	..	..	..	..	1	..	..	1	1	..	..
50. Diabetes	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
51. Exophthalmic goitre	3	....	..	..	..	..	..	..	..	....	1	..	2	..	..	..	..	2	1	....	3	....	....	2	1	....	1	..	..	..	..	..	..	..	..	..	1	..
53. Leucæmia	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	1	....	..	..	..	..	..	1	..	....	..	..	..	..	1	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
56. Alcoholism (acute or chronic)	5	....	..	..	..	..	..	..	..	....	1	..	1	3	..	..	..	....	5	....	2	3	....	....	5	....	..	1	1	1	..	1	1	..	..	..	..	..
	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	....	1	....	....	1	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	67	4	4	..	1	1	2	..	1	6	6	9	8	11	7	7	..	31	36	....	37	15	15	29	32	6	4	2	3	6	8	5	6	7	6	2	8	10
61. Simple meningitis	6	2	3	..	..	1	..	..	..	....	..	..	....	..	..	..	..	2	4	....	6	....	....	6	....	....	1	..	..	..	1	1	1	..	..	..	..	2
62. Locomotor ataxia	2	....	..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	1	1	....	2	....	....	....	2	....	..	..	..	..	..	..	1	..	..	..	1	..
63. Other diseases of the spinal cord	3	....	..	..	..	..	..	..	..	1	1	1	..	..	..	..	..	1	2	....	3	....	....	1	1	1	..	..	..	..	..	..	..	1	..	..	1	1
64. Cerebral hæmorrhage, apoplexy	21	....	..	..	..	..	..	..	..	1	..	1	3	4	7	5	..	8	13	....	3	11	7	3	16	2	1	1	..	4	3	3	1	1	4	1	1
65. Softening of the brain	2	....	..	..	..	..	..	..	..	....	..	..	1	..	..	1	..	1	1	....	....	1	1	....	1	1	..	..	..	..	..	..	..	1	..	..	1	..
66. Paralysis without specified cause	4	....	..	..	..	..	1	..	..	1	..	..	....	1	..	1	..	3	1	....	2	....	2	1	3	....	..	..	2	..	..	..	..	1	..	..	..	1
67. General paralysis of the insane	10	....	..	..	..	..	..	..	..	1	..	5	....	4	..	..	..	6	4	....	4	3	3	5	4	1	..	1	..	1	..	2	2	1	..	1	1
68. Other forms of mental alienation	5	....	..	..	..	..	..	..	..	....	2	2	....	1	..	..	..	1	4	....	5	....	....	2	3	....	..	..	..	..	..	..	..	..	1	1	3
69. Epilepsy	5	....	..	..	..	..	..	..	..	2	1	..	2	..	..	..	..	4	1	....	4	....	1	4	....	1	..	..	..	..	..	2	..	..	1	..	1	1
71. Convulsions of infants	3	2	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	1	....	3	....	....	3	....	....	2	..	..	1	..	..	..	..	..	..	..	..
73. Neuralgia and neuritis	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	....	....	1	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
74. Other diseases of the nervous system	4	....	..	..	1	..	..	..	1	....	1	..	....	1	..	..	..	2	2	....	4	....	....	3	1	....	..	..	..	1	1	..	1	..	..	1	..
76. Diseases of the ears	1	....	..	..	..	1	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	103	....	..	..	..	..	1	1	..	7	6	8	7	31	17	23	2	64	39	....	46	33	24	21	68	14	8	4	11	8	13	4	10	4	12	11	10	7
78. Acute Endocarditis	5	....	..	..	..	..	..	..	..	2	1	..	....	1	..	1	..	5	....	....	2	1	2	2	3	....	1	..	..	2	1	..	..	..	..	..	..	1
79. Organic diseases of the heart	66	....	..	..	..	..	1	1	..	4	5	8	5	23	6	11	2	37	29	....	35	16	15	18	40	8	4	3	7	4	7	2	8	2	7	8	9	5
80. Angina pectoris	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	29	....	..	..	..	..	..	..	..	....	..	..	1	6	11	11	..	20	9	....	8	15	6	1	23	5	3	1	3	1	4	2	2	2	6	3	1	1
82. Embolism and thrombosis	2	....	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	1	1	....	....	1	1	....	1	1	..	..	1	..	1	..	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	76	4	1	..	..	..	..	1	1	4	7	6	10	10	15	11	3	39	37	....	11	19	16	24	47	5	6	11	8	13	5	7	4	5	4	..	5	8
89. Acute bronchitis	3	1	..	..	..	..	..	..	..	....	..	..	....	1	..	1	..	2	1	....	2	....	1	1	2	....	1	..	..	..	1	1	..	..	..	..	..	..
90. Chronic bronchitis	12	1	..	..	..	..	..	..	..	....	1	....	1	5	2	2	..	5	7	....	5	5	2	4	7	1	1	1	1	3	1	..	1	1	1	..	1	1
91. Broncho-pneumonia	7	1	1	..	..	..	..	..	..	1	..	1	....	..	1	2	..	5	2	....	3	2	2	4	3	....	1	2	1	1	..	1	..	..	..	..	..	1
92. Pneumonia	45	1	3	..	..	..	..	1	1	3	6	2	8	6	7	6	1	21	24	....	26	11	8	13	29	3	2	6	6	7	3	4	1	4	3	..	3	6
93. Pleurisy	4	....	..	..	..	..	..	..	..	....	1	..	2	..	1	..	..	3	1	....	1	....	3	1	2	1	1	1	..	..	..	1	1	..	..	..	..	..
94. Pulmonary congestion, pulmonary apoplexy	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
96. Asthma	4	....	..	..	..	..	..	..	..	....	1	....	2	1	..	..	..	3	1	....	3	1	....	1	3	....	..	..	..	2	....	1	..	..	..	1	..
V.—Diseases of the Digestive System.																																						
Group Total	44	6	3	..	1	..	3	..	..	5	1	4	10	4	5	1	1	28	16	....	35	4	5	23	15	6	6	2	4	6	4	2	6	3	2	4	4	1
99. Diseases of the mouth and adnexa	4	3	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	2	....	4	....	....	4	....	....	....	1	..	..	..	..	1	1	..	1	..	..
100. Diseases of the pharynx	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	1	....	....	....	..	1	....	....	....	....	....	....	....	....
102. Ulcer of the stomach	5	....	..	..	..	..	..	..	..	....	2	1	..	2	..	..	..	4	1	....	4	1	....	....	4	1	1	2	..	..	1	..	..	..	..	1	..	..
104. Diarrhœa and enteritis (under 2 years)	4	2	2	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	2	....	4	....	....	4	....	....	1	..	..	1	..	..	..	..	..	1	1	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
XIII.—Affections Produced by External Causes.																																						
Group Total	42	1	1	..	..	1	1	3	3	9	2	5	6	2	1	6	1	35	7	....	22	9	11	20	17	5	2	3	4	3	5	6	6	2	1	7	2	1
157. Suicide by hanging or strangulation	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
159. Suicide by firearms	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
160. Suicide by cutting or piercing instruments	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
163. Other suicides	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
169. Accidental drowning	7	....	..	..	..	1	1	1	2	1	1	..	....	..	..	..	..	6	1	....	4	3	....	7	....	....	..	..	..	..	..	2	3	1	1	..	..	..
170. Traumatism by firearms	2	....	..	..	..	..	..	..	1	....	..	..	1	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	..	..	..	..	..	2	..	..
172. Traumatism by fall	3	1	..	..	..	..	..	..	..	....	..	..	1	..	..	1	..	2	1	....	1	....	2	2	....	1	..	..	..	..	..	..	..	..	..	2	..	1
173. Traumatism in mines and quarries	3	....	..	..	..	..	..	..	..	1	..	2	....	..	..	..	..	3	....	....	....	2	1	2	1	....	..	..	..	..	..	..	2	1	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	7	....	..	..	..	..	..	1	..	2	1	2	....	1	..	..	..	5	2	....	3	2	2	2	3	2	..	2	1	..	..	1	1	..	..	2	..	..
180. Lightning	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
181. Electricity (lightning excepted)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	4	..	3	2	....	2	....	3	1	3	1	1	1	1	..	1	..	..	..	..	1	..	..
185. Fractures (cause not specified)	5	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	4	2	....	2	....	3	1	3	1	1	1	1	..	1	..	..	..	..	1	..	..
186. Other external violence	9	....	1	..	..	..	..	1	..	2	..	1	1	1	..	1	1	8	1	....	4	2	3	3	5	1	..	..	1	3	2	..	1	1	..	1	..
XIV.—Ill-Defined Diseases.																																						
Group Total	28	....	2	1	1	..	2	..	..	3	3	..	4	7	3	1	1	18	10	....	22	3	3	14	13	1	1	1	1	2	1	2	1	4	3	3	4	3	3
187. Ill-defined organic disease	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
189. Cause of death not specified or ill-defined	27	....	2	1	1	..	2	..	..	3	3	..	4	7	2	1	1	18	9	....	22	2	3	14	12	1	1	1	1	2	1	2	1	4	3	3	4	2	3
Still-Births.																																						
Not included in totals	41	41	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	21	17	3	41	....	....	41	....	....	6	4	4	1	8	1	2	2	7	2	2	2

CAUSES OF DEATH IN THE COUNTY OF GREY, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1	Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	738	103	23	6	6	3	13	5	10	43	46	44	62	94	137	137	6	418	320	.....	447	207	84	247	439	52	56	47	76	71	70	58	59	54	65	75	43	64
I.—General Diseases.																																						
Group Total	177	7	5	..	3	2	7	5	6	21	23	23	22	27	14	10	2	96	81	....	121	37	19	64	102	11	11	14	19	24	21	12	9	17	13	16	5	16
1. Typhoid fever	5	....	..	..	..	..	..	..	..	....	2	1	....	1	1	....	..	3	2	....	4	....	1	2	3	....	..	1	..	1	..	..	..	..	..	1	..	2
6. Measles	14	2	4	..	2	2	..	2	..	....	..	1	....	..	..	..	1	10	4	....	13	....	1	12	1	1	..	1	2	5	4	2	..	..	..	..	..	..
7. Scarlet fever	3	....	1	..	1	..	..	..	..	1	..	..	....	..	..	..	..	1	2	....	2	1	....	3	....	....	2	1	..	..	..	..	..	..	1	..	..	..
8. Whooping cough	4	4	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	3	....	4	....	....	4	....	....	..	..	..	..	1	..	..	..	1	1	..	..
9. Diphtheria and croup	7	....	..	..	..	..	3	..	2	1	..	..	....	1	..	..	..	4	3	....	6	1	....	6	1	....	1	..	1	1	..	..	1	..	1	..	1	1
10. Influenza	2	....	..	..	..	..	..	..	..	....	..	1	1	..	..	..	..	....	2	....	2	....	....	2	....	....	..	..	..	..	2	..	..	..	..	..	..	..
18. Erysipelas	4	1	..	..	..	..	..	..	..	....	1	..	....	..	1	1	..	2	2	....	2	2	....	2	2	....	1	1	..	..	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	40	....	..	..	..	..	..	1	2	15	11	5	5	1	..	..	..	19	21	....	30	8	2	12	26	2	1	4	5	5	3	4	2	3	4	2	1	4
30. Tuberculous meningitis	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
31. Abdominal tuberculosis	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	..	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
32. Pott's disease	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
37. Syphilis	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	..	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	..	....	....	1	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	15	....	..	..	..	..	..	..	..	....	1	..	2	9	2	1	..	11	4	....	4	6	5	....	12	3	1	3	..	2	1	..	1	2	2	1	1	1
41. Cancer and other malignant tumors of the peritoneum, intestines, rectum	6	....	..	..	..	..	..	..	..	....	..	..	3	2	1	..	..	3	3	....	5	....	1	1	4	1	1	..	1	..	1	....	1	..	1	..	1	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	3	....	..	..	..	..	..	..	..	....	..	..	1	1	1	..	..	....	3	....	1	2	....	1	2	....	..	..	..	..	1	..	1	..	..	..	1	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	17	....	..	..	..	..	..	..	..	....	..	1	4	3	4	4	1	11	6	....	13	3	1	2	14	1	..	..	1	1	1	1	2	7	1	2	1	..
47. Acute articular rheumatism	4	....	..	..	..	2	..	1	..	1	..	..	....	2	2	..	..	1	3	....	3	1	....	4	....	....	1	..	..	3	1	..	..	..	2	1	2	..	1
48. Chronic rheumatism and gout	7	....	..	..	..	..	..	..	..	....	..	1	2	2	2	..	..	2	5	....	4	3	....	2	5	....	1	..	..	..	..	..	..	..	1	..	2	..	1
50. Diabetes	5	....	..	..	..	..	..	1	..	....	2	1	....	1	..	..	..	....	5	....	4	....	1	2	2	1	1	..	..	1	..	1	..	..	..	1	..	1	1
51. Exophthalmic goitre	4	....	..	..	..	..	..	..	1	1	..	1	....	1	..	..	..	1	3	....	3	1	....	1	3	....	..	..	..	1	..	1	..	..	..	1	..	1	1
53. Leucæmia	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	..	....	....	....	1	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	26	....	..	..	..	..	..	1	..	1	4	8	3	3	2	4	..	16	9	....	14	7	5	6	18	2	1	2	3	4	2	2	2	2	2	1	..	4
56. Alcoholism (acute or chronic)	3	....	..	..	..	..	..	..	..	....	..	2	....	1	..	..	..	3	....	....	2	....	1	1	2	....	..	..	..	..	..	..	..	..	..	2	1	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	57	9	2	..	1	1	1	..	..	2	2	1	4	15	11	8	..	30	27	....	31	17	9	19	33	5	6	2	3	6	7	2	7	4	6	8	2	4
61. Simple meningitis	5	1	1	..	..	1	1	..	..	1	..	..	..	..	..	..	..	2	3	....	4	1	....	5	....	....	1	..	..	1	..	..	1	..	..	2	..	..
64. Cerebral hæmorrhage, apoplexy	18	..	..	..	..	..	..	..	..	..	1	..	..	7	8	2	..	9	9	....	8	5	5	..	16	2	3	1	..	1	5	..	3	..	2	1	..	2
65. Softening of the brain	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..
66. Paralysis without specified cause	16	..	..	..	..	..	..	..	..	..	..	..	1	6	3	6	..	8	8	....	5	9	2	..	14	2	1	1	1	1	..	1	3	1	3	2	1	1
68. Other forms of mental alienation	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..
69. Epilepsy	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..
71. Convulsions of infants	10	8	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	6	4	....	10	..	..	10	..	..	1	..	..	3	..	1	..	2	1	1	..	..
73. Neuralgia and neuritis	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	1	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..
74. Other diseases of the nervous system	4	..	..	..	..	..	..	..	..	..	1	..	2	1	..	..	..	2	2	....	1	1	2	2	2	..	..	..	2	..	..	..	..	..	..	1	..	1
III.—Diseases of the Circulatory System.																																						
Group Total	105	1	..	..	..	..	..	..	..	2	7	3	17	19	38	18	..	59	46	....	56	39	10	9	86	10	7	7	4	4	7	12	12	7	10	12	13	10
78. Acute Endocarditis	2	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	2	..	..	2	..	..	..	2	..	..	..	..	..	..	..	..	..	1	1	..	..
79. Organic diseases of the heart	76	..	..	..	..	..	..	..	..	2	6	3	14	15	28	8	..	39	37	....	41	27	8	7	60	9	4	6	3	3	4	11	9	1	8	9	10	8
80. Angina pectoris	4	1	..	..	..	..	..	..	..	..	..	..	..	1	..	2	..	4	..	..	3	1	..	2	1	1	..	1	1	..	..	..	..	2	..	..	..	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	21	..	..	..	..	..	..	..	..	..	..	..	1	2	10	8	..	13	8	....	8	11	2	..	21	..	3	..	..	1	3	..	2	4	1	2	3	2
82. Embolism and thrombosis	2	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	1	1	....	2	..	..	..	2	..	..	..	..	..	..	1	1	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	79	13	6	2	1	..	1	..	..	4	1	3	4	14	21	8	1	45	34	....	53	20	6	33	43	3	6	7	12	10	14	6	2	1	2	8	4	7
89. Acute bronchitis	6	3	1	1	1	..	..	..	..	..	..	..	..	..	..	..	..	2	4	..	6	..	..	6	..	..	1	2	..	1	2	..	..	..	..	..	..	..
90. Chronic bronchitis	16	..	1	..	..	..	..	..	..	..	..	..	2	3	6	3	1	8	8	....	8	3	5	3	13	..	1	2	2	..	2	2	2	..	..	1	3	1
91. Broncho-pneumonia	13	3	4	1	..	..	..	..	..	..	..	..	1	1	2	1	..	9	4	....	9	3	1	9	4	..	1	1	3	2	2	..	..	..	1	1	..	2
92. Pneumonia	34	7	..	..	..	1	..	..	..	3	..	3	1	6	11	2	..	22	12	....	24	10	..	14	18	2	3	2	6	6	7	3	..	..	1	3	1	2
93. Pleurisy	4	..	..	..	..	..	..	..	..	..	1	..	..	2	..	1	..	2	2	..	..	4	..	..	3	1	..	..	..	1	1	..	..	..	..	1	..	1
94. Pulmonary congestion, pulmonary apoplexy	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..
96. Asthma	5	..	..	..	..	..	..	..	..	1	..	..	..	2	1	1	..	1	4	....	5	..	..	1	4	..	..	..	1	..	..	1	..	..	..	2	..	1
V.—Diseases of the Digestive System.																																						
Group Total	52	11	9	3	..	..	2	..	2	1	..	4	5	6	7	2	..	32	20	....	37	5	10	29	20	3	5	3	9	2	6	5	3	5	5	5	3	1
100. Diseases of the pharynx	2	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	2	..	..	1	..	1	..	1	1	..	..	1	..	..	..	..	..	..	..	..	1
102. Ulcer of the stomach	2	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	2	..	..	1	1	..	..	2	..	..	..	..	..	2	..	..	..	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	7	2	1	..	..	..	..	..	..	..	..	..	..	1	3	..	..	5	2	..	4	2	1	3	4	..	..	..	..	..	..	..	..	..	..	..	..	..
104. Diarrhœa and enteritis (under 2 years)	15	9	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	12	3	..	15	..	..	15	..	..	3	..	5	..	1	1	..	5	..	1	1	..
105. Diarrhœa and enteritis (2 years and over)	2	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	2	..	..	2	..	..	..	..	..	..	..	..	..	..	1	..	1	..
108. Appendicitis and typhlitis	4	..	..	..	..	2	..	1	..	..	..	..	1	..	..	..	..	1	3	..	4	..	..	3	1	..	..	..	..	1	1	1	..	..	1	..	..	..
109. Hernias, intestinal obstructions	7	..	1	..	..	..	1	..	..	..	..	..	1	2	2	..	..	3	4	....	4	1	2	4	3	..	1	..	..	..	..	2	..	1	1	2	..	..
110. Diseases of the intestines	4	..	1	..	..	..	..	..	..	..	..	2	..	..	..	1	..	2	2	..	3	..	1	2	1	1	..	..	..	..	..	1	2	..	1	..	..	..
113. Cirrhosis of the liver	3	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..	..	2	1	..	2	..	1	3	..	..	..	..	..	..	1	..	..	..	1	..	1	..
115. Other diseases of the liver	4	..	..	..	..	..	..	..	..	..	..	2	1	..	1	..	..	2	2	..	..	1	3	..	3	..	1	1	1	..	..	..	..	..	1	..	..	..
116. Diseases of the spleen	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	1	..	..	1	1	..	..	1	..	..	..	..	..	..	..	..	..	..
117. Simple peritonitis (non-puerperal)	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
168. Absorption of deleterious gases (conflagration excepted)	2	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	1	1	....	2	....	....	....	2	....	..	..	..	..	..	..	..	..	..	2	..	..
170. Traumatism by firearms	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	1	..	..	1	..	..	..	..	..	..	..	..
172. Traumatism by fall	3	....	..	..	..	..	..	..	..	....	..	..	1	..	1	..	1	3	....	....	1	....	2	1	2	....	..	..	..	..	..	1	1	..	..	1	..	..
174. Traumatism by machines	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	2	....	....	....	2	....	1	1	....	..	1	..	..	1	..	..	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	2	....	..	..	..	..	..	..	..	....	..	..	2	..	..	..	..	2	....	....	1	1	....	....	2	....	..	..	..	..	..	1	..	..	..	..	1
176. Injuries by animals	2	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	1	1	1	....	1	....	1	....	2	....	..	1	..	..	..	..	..	..	..	..	..	1
181. Electricity (lightning excepted)	4	....	..	..	..	..	..	..	..	2	1	..	....	..	..	..	1	4	....	....	3	....	1	2	2	....	..	..	..	..	..	2	2	..	..	..	..	..
184. Homicide by other means	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
185. Fractures (cause not specified)	6	....	..	..	..	1	..	..	..	....	..	1	....	1	1	2	..	5	1	....	2	4	....	2	4	....	..	..	1	..	1	..	..	1	1	..	1	1
186. Other external violence	3	....	..	1	..	..	..	..	..	....	..	..	1	1	..	..	..	3	....	....	2	1	....	1	2	....	..	..	..	1	..	..	..	..	1	..	..	1
XIV.—Ill-Defined Diseases.																																						
Group Total	14	....	..	..	..	..	..	..	..	2	1	2	4	5	..	..	..	9	5	....	7	3	4	4	8	2	1	..	2	1	1	1	..	1	2	2	1	2
188. Sudden death	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
189. Cause of death not specified or ill-defined	13	....	..	..	..	..	..	..	..	2	1	2	3	5	..	..	..	8	5	....	6	3	4	3	8	2	1	..	1	1	1	1	..	1	2	2	1	2
Still-Births.																																						
Not included in totals	52	52	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	32	20	....	52	....	....	52	....	....	3	2	4	4	4	4	7	6	5	4	4	5

CAUSES OF DEATH IN THE COUNTY OF HALDIMAND, 1912.

OFFICIAL ENGLISH TRANSLATION.
DISEASES AND CAUSES OF DEATH.

Number of Column.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1. 0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	229	35	3	2	2	1	5	.....	4	10	7	18	20	27	45	42	8	124	105	.....	150	39	40	79	126	24	39	13	25	22	15	18	16	12	14	18	19	18
I.—General Diseases.																																						
Group Total	67	10	2	1	..	..	3	..	1	4	3	8	7	9	16	1	2	38	29	....	48	7	12	31	25	11	11	5	7	7	6	9	8	2	2	5	1	4
1. Typhoid fever	3	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	....	....	....	....	....	....	..	..	..	..	..	..	..	..	..	..	..	..
6. Measles	3	....	1	..	..	..	..	..	1	....	..	1	....	..	..	..	1	2	1	....	3	....	....	2	1	....	1	..	1	..	..	..	..	..	..	..	..	..
8. Whooping cough	11	8	1	..	..	..	2	..	..	....	..	..	....	..	1	..	..	6	5	....	10	....	1	10	....	1	4	2	..	2	2	..	..	..	..	..	..	1
9. Diphtheria and croup	2	....	..	1	..	..	..	..	..	....	..	..	1	..	..	..	..	1	1	....	2	....	....	1	1	....	1	..	..	..	..	..	..	..	1	..	..	..
10. Influenza	3	....	..	..	..	..	..	..	..	....	..	..	....	1	2	..	..	3	....	....	3	....	....	1	1	1	1	..	..	..	..	..	1	..	..	..	..	1
14. Dysentery	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..
28. Tuberculosis of the lungs	14	....	..	..	..	..	..	..	..	3	3	3	2	1	1	..	1	7	7	....	9	2	3	8	3	3	2	1	2	2	1	2	3	..	..	1	..	1
33. White swelling	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	1	....	....	....	..	1	..	..	..	..	..	..	..	..	..
36. Rickets	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	2	....	..	..	..	..	..	..	..	....	..	1	....	1	..	..	..	1	1	....	1	....	1	1	....	1	..	..	..	..	..	..	1	..	1	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	8	....	..	..	..	..	..	..	..	....	..	..	1	5	2	..	..	4	4	....	5	1	2	....	6	2	2	..	2	1	..	1	..	..	..	2	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	3	....	..	..	..	..	..	..	..	....	..	1	....	..	2	..	..	3	....	....	2	1	....	1	2	....	..	..	1	..	..	..	1	1	..	..	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	....	1	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	4	....	..	..	..	..	..	..	..	....	..	1	1	..	2	..	..	2	2	....	3	1	....	2	1	1	..	1	..	..	1	1	..	..	..	..	..	1
47. Acute articular rheumatism	3	....	..	..	..	1	..	..	1	....	..	..	1	..	..	..	..	2	1	....	3	....	....	2	1	....	..	1	..	..	1	1	..	..	..	..	..	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	....	1	....	1	....	....	..	..	..	1	1	..	..	..	..	..	..
50. Diabetes	3	....	..	..	..	..	..	..	..	....	..	1	..	..	..	..	..	1	2	....	2	....	1	....	2	1	..	..	..	..	..	1	1	..	..	..	1	..
54. Anæmia, chlorosis	4	1	..	..	..	..	..	..	..	....	..	1	1	..	2	..	..	2	2	....	1	1	2	1	3	....	..	..	..	..	..	1	2	1	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	21	....	..	..	1	..	1	..	1	2	..	..	2	5	4	5	..	9	12	....	14	3	4	5	14	2	4	2	2	3	1	1	..	1	1	2	1	3
61. Simple meningitis	3	....	..	..	1	..	1	..	..	1	..	..	....	..	..	..	..	3	....	....	3	....	....	3	....	....	2	..	..	1	..	..	..	..	..	..	..	..
63. Other diseases of the spinal cord	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	6	....	..	..	..	..	..	..	..	....	..	..	....	2	1	..	..	2	4	....	3	....	3	....	5	1	2	..	1	..	..	..	..	..	..	1	1	..
66. Paralysis without specified cause	7	....	..	..	..	..	..	..	..	....	..	..	....	2	3	1	2	2	5	....	4	3	....	1	5	1	..	1	1	..	1	..	..	..	..	..	..	1
70. Convulsions (non-puerperal)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..
73. Neuralgia and neuritis	2	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..
74. Other diseases of the nervous system	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	1	....	....	....	2	....	....	..	..	..	1	..	..	..	..	1	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
III.—Diseases of the Circulatory System.																																						
Group Total	31	....	..	..	..	..	..	..	..	....	..	4	5	7	8	7	..	18	13	....	17	6	8	3	26	2	4	4	..	4	1	1	4	4	2	2	2	3
79. Organic diseases of the heart	21	....	..	..	..	..	..	..	..	....	..	4	5	5	5	2	..	12	9	....	13	3	5	3	17	1	3	3	..	2	1	1	2	3	1	2	2	1
80. Angina pectoris	2	....	..	..	..	..	..	..	..	....	..	..	....	2	..	..	..	1	1	....	2	....	..	....	2	....	..	..	..	..	..	..	..	..	..	..	..	2
81. Diseases of the arteries, atheroma, aneurysm, etc.	7	....	..	..	..	..	..	..	..	....	..	..	....	..	2	5	..	5	2	....	2	3	2	....	6	1	1	1	..	2	..	..	2	..	1	..	..	..
82. Embolism and thrombosis	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	....	1	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	13	4	....	1	..	..	..	..	..	....	1	1	....	2	2	1	1	5	8	....	7	4	2	8	5	....	4	..	4	1	..	2	..	..	..	1	1	..
89. Acute bronchitis	3	2	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	2	....	2	....	1	2	1	....	1	..	1	..	..	..	..	..	..	1	..	..
90. Chronic bronchitis	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
91. Broncho-pneumonia	3	....	..	..	1	..	..	..	..	....	..	..	....	..	1	..	1	2	1	....	2	1	....	2	1	....	1	..	..	..	..	2	..	..	..	..	..	..
92. Pneumonia	5	2	..	..	..	..	..	..	..	....	1	..	....	2	..	..	..	1	4	....	2	2	1	3	2	....	2	..	2	..	..	..	..	..	..	..	1	..
97. Pulmonary emphysema	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	14	7	..	1	..	..	..	..	1	....	1	3	....	1	..	..	..	10	4	....	14	....	....	9	5	....	3	..	1	1	..	..	1	..	4	1	2	1
100. Diseases of the pharynx	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
102. Ulcer of the stomach	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	2	2	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	1	..	..	..
104. Diarrhœa and enteritis (under 2 years)	4	4	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	2	....	4	....	....	4	....	....	..	..	..	..	..	..	..	..	..	..	..	..
105. Diarrhœa and enteritis (2 years and over)	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	2	1	..	..
108. Appendicitis and typhlitis	2	....	..	..	..	..	..	..	..	....	..	2	....	..	..	..	..	1	1	....	2	....	....	1	2	....	1	..	..	..	..	..	..	..	..	..	1	..
109. Hernias, intestinal obstructions	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
117. Simple peritonitis (non-puerperal)	2	....	..	..	..	..	..	1	..	....	..	..	....	1	..	..	..	2	....	....	2	....	....	1	1	....	1	..	..	..	..	..	..	..	..	..	1	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	8	....	..	..	..	..	..	..	..	1	2	1	....	1	1	2	..	2	6	....	4	2	2	2	6	....	1	..	..	1	2	1	..	..	..	..	3	..
119. Acute nephritis	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
120. Bright's disease	5	....	..	..	..	..	..	..	..	....	1	1	....	1	..	2	..	2	3	....	2	2	1	1	4	....	1	..	..	1	1	..	..	..	..	..	2	..
131. Cysts and other tumors of the ovary	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	....	1	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
132. Salpingitis and other diseases of the female genital organs	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
VII.—The Puerperal State.																																						
Group Total	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
135. Puerperal hemorrhage	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..

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CAUSES OF DEATH IN THE COUNTY OF HALIBURTON, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	62	8	4	3	1	1	1	3	2	4	6	1	2	9	10	5	2	34	28	.....	44	9	9	31	23	8	3	11	10	8	3	3	4	3	7	4	4	2
I.—General Diseases.																																						
Group Total	14	1	1	1	..	..	1	2	..	....	2	1	2	2	..	..	1	7	7	....	9	2	3	8	5	1	..	3	1	2	1	1	2	1	2	..	..	1
1. Typhoid fever	1	....	..	..	..	..	..	1	..	....	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
7. Scarlet fever	3	....	..	1	..	..	1	1	..	....	..	..	..	..	..	..	..	1	2	....	3	....	....	3	....	....	..	3	..	..	..	..	..	..	..	..	..	..
18. Erysipelas	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	4	....	1	..	..	..	..	..	..	....	..	1	....	1	....	1	....	2	2	....	3	....	1	1	3	....	..	..	..	1	..	..	1	1	1	..	..	..
34. Tuberculosis of other organs	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	..	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	..	....	....	....	1	....	....	1	..	..	..	..	1	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	..	....	....	....	1	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
50. Diabetes	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	1	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
55. Other general diseases	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	4	....	..	..	..	..	..	..	..	....	2	..	....	1	1	..	..	2	2	....	3	1	....	1	2	1	1	..	1	..	..	..	..	..	1	1	..
63. Other diseases of the spinal cord	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
64. Cerebral hæmorrhage, apoplexy	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	..	....	1	....	....	....	....	1	1	..	..	..	..	..	..	..	..	..	..	..
73. Neuralgia and neuritis	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
74. Other diseases of the nervous system	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																					
Group Total	5	....	..	..	..	..	..	..	..	....	..	..	....	2	2	1	..	4	1	....	3	....	2	2	2	1	1	..	..	1	..	1	1	1	..	..	..	..
79. Organic diseases of the heart	4	....	..	..	..	..	..	..	..	....	..	..	....	2	1	1	..	3	1	....	2	....	2	2	1	1	1	..	..	..	..	1	1	1	..	..	..	..
81. Diseases of the Arteries, atheroma, aneurysm, etc.	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	..	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																					
Group Total	7	2	1	2	..	..	..	..	1	1	..	..	..	..	..	..	..	5	2	....	7	....	....	7	....	....	..	3	3	1	..	..	..	..	..	..	..	..
91. Broncho-pneumonia	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
92. Pneumonia	6	2	1	1	..	..	..	..	1	1	..	..	....	..	..	..	..	4	2	....	6	....	....	6	....	....	..	3	3	..	..	..	..	..	..	..	..	..

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	229	40	3	2	1	1	2	3	5	9	11	9	21	32	49	38	3	106	123	.....	161	47	21	81	112	36	24	18	24	34	26	14	9	11	15	17	17	20
I.—General Diseases.																																						
Group Total	58	7	..	..	..	..	1	2	4	5	4	3	9	9	13	1	..	25	33	....	17	8	3	22	28	8	11	4	9	7	7	3	..	4	3	1	1	8
8. Whooping cough	1	1	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	2	2	....	..	....	....	1	....	....	..	1	..	1	..	..	..	..	..	..	..	..
9. Diphtheria and croup	1	..	..	..	..	..	..	1	....	..	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
10. Influenza	2	1	..	..	..	..	..	..	....	..	..	..	..	1	..	..	..	2	....	....	2	....	....	1	1	....	..	..	2	..	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	1	..	..	..	..	..	..	1	....	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
28. Tuberculosis of the lungs	11	..	..	..	..	..	..	..	2	3	1	3	..	2	..	..	..	6	5	....	11	....	....	5	5	1	2	..	1	1	2	1	..	1	..	..	..	3
30. Tuberculous meningitis	3	2	..	..	..	..	..	1	....	..	..	..	..	..	..	..	..	1	2	....	3	....	....	3	....	....	..	..	1	..	2	..	..	..	..	..	..	..
31. Abdominal tuberculosis	2	..	..	..	..	..	..	..	....	..	1	..	..	1	..	..	..	....	2	....	2	....	....	1	1	....	..	..	..	..	..	..	..	..	..	..	1	1
37. Syphilis	1	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	8	..	..	..	..	..	1	..	....	..	..	..	4	2	..	1	..	3	5	....	7	1	....	1	4	3	1	..	1	2	..	1	..	..	1	..	..	2
41. Cancer and other malignant tumors of the peritoneum, intestines, rectum	1	..	..	..	..	..	..	..	....	..	..	..	..	..	1	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
42. Cancer and other malignant tumors of the female genital organs	2	..	..	..	..	..	..	..	....	1	..	..	..	1	..	..	..	....	2	....	2	....	....	....	2	....	1	..	1	..	..	..	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	2	..	..	..	..	..	..	..	....	..	1	..	1	..	..	..	..	....	2	....	2	....	....	....	2	....	..	..	1	1	..	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	5	..	..	..	..	..	..	..	....	1	..	..	1	1	2	..	..	3	2	....	3	2	....	1	3	1	1	..	1	..	1	..	..	1	..	1	..	..
46. Other tumors (tumors of the female genital organs excepted)	1	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	..	....	1	....	1	....	....	....	....	1	..	..	..	..	1	..	..	..	..	..	..	..
47. Acute articular rheumatism	1	..	..	..	..	..	..	1	....	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	2	..	..	..	..	..	..	..	....	..	..	..	..	1	1	..	..	1	1	....	1	1	....	....	2	....	..	..	..	..	..	..	..	..	1	1	..	..
50. Diabetes	1	..	..	..	..	..	..	..	....	..	..	..	..	1	..	..	..	1	....	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
51. Exophthalmic goitre	1	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	..	....	1	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	7	..	..	..	..	..	..	..	....	..	..	..	..	4	3	..	..	2	5	....	2	2	3	....	6	1	2	2	..	1	1	..	..	1	..	..	..	..
55. Other general diseases	1	..	..	..	..	..	..	..	....	..	..	..	..	..	1	..	..	....	1	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	..	..	..	1
56. Alcoholism (acute or chronic)	1	..	..	..	..	..	..	..	....	..	1	..	..	..	..	..	..	....	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	28	3	1	..	..	..	1	..	1	1	..	..	3	8	5	5	..	14	14	....	18	6	4	9	15	4	..	3	2	6	4	2	2	..	3	2	3	1
61. Simple meningitis	4	2	1	..	..	..	1	..	....	..	..	..	..	..	..	..	..	2	2	....	4	....	....	4	....	....	..	..	..	1	1	..	1	..	1	..	..	..
64. Cerebral hæmorrhage, apoplexy	15	..	..	..	..	..	..	..	....	..	..	..	2	4	5	4	..	9	6	....	8	3	4	1	11	3	..	2	2	4	1	..	1	..	1	1	2	1
65. Softening of the brain	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..

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HALTON—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
X.—Malformations.																																						
Group Total	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
150. Congenital malformations (still-births not included)	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
XI.—Diseases of Early Infancy.																																						
Group Total	18	18	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	12	....	18	....	....	18	....	....	1	2	1	2	2	2	1	1	2	3	..
151. Congenital debility, icterus and sclerema	15	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	10	....	15	....	....	15	....	....	1	1	..	2	2	2	..	1	1	2	3	..
152. Other diseases peculiar to early infancy	3	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	....	3	....	....	3	....	....	..	1	1	..	..	..	1	..	..	..	..	..
XII.—Old Age.																																						
Group Total	27	....	..	..	..	..	..	..	..	..	..	..	..	..	5	22	..	15	12	....	10	13	4	3	17	7	5	1	2	2	5	..	1	..	..	2	4	5
XIII.—Affections Produced by External Causes.																																						
Group Total	12	....	..	..	..	1	..	..	..	1	1	..	2	1	2	2	2	10	2	....	5	5	2	4	3	5	1	..	1	1	2	..	2	2	1	..	2	..
155. Suicide by poison	1	....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	....	....	....	1	....	....	....	1	..	..	..	..	..	..	..	1	..	..	..	..
169. Accidental drowning	1	....	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
172. Traumatism by fall	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad landslides, etc.)	5	....	..	..	..	..	..	..	..	....	1	..	2	..	..	..	2	5	....	....	2	2	1	2	....	3	..	..	..	1	1	..	..	1	..	2	..
185. Fractures (cause not specified)	2	....	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	2	....	..	1	1	..	2	....	..	..	..	1	..	..	..	1	..	..	..	..
186. Other external violence	2	....	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	2	....	....	1	1	....	1	....	1	1	..	..	..	..	..	..	1	..	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	11	1	..	1	..	..	..	..	..	..	..	1	2	2	1	2	1	3	8	....	6	2	3	3	6	2	..	1	2	3	1	..	..	1	3	..	..	..
189. Cause of death not specified or ill-defined	11	1	..	1	..	..	..	..	..	..	..	1	2	2	1	2	1	3	8	....	6	2	3	3	6	2	..	1	2	3	1	..	..	1	3	..	..	..
Still-Births.																																						
Not included in totals	15	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	7	1	15	....	....	15	....	....	2	..	3	1	1	1	2	2	..	..	3	..

CAUSES OF DEATH IN THE COUNTY OF HASTINGS, 1912.

OFFICIAL ENGLISH TRANSLATION.
DISEASES AND CAUSES OF DEATH.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.												
		Under 1.																																						
		0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Grand Total	709	147	14	13	6	1	12	7	15	49	37	37	68	81	123	88	11	396	313	.....	542	110	57	300	366	43	65	61	83	62	57	58	69	47	44	55	51	57
I.—General Diseases.																																						
Group Total	163	17	3	3	3	..	6	3	9	22	17	18	26	17	14	4	1	86	77	....	131	22	7	73	80	10	16	14	16	15	11	14	17	11	11	13	14	11
1. Typhoid fever	8	1	..	..	..	..	..	1	2	3	..	1	....	..	..	..	..	2	6	....	7	1	....	5	3	....	2	1	1	1	..	..	..	..	1	1	1	..
4. Malaria	1	..	..	..	..	..	..	..	..	..	1	..	....	..	..	..	..	1	..	....	1	..	....	..	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..
7. Scarlet fever	9	2	1	2	2	..	2	..	..	..	..	..	....	..	..	..	..	4	5	....	9	..	....	2	..	....	1	..	3	..	1	1	..	..	..	1	..	..
8. Whooping cough	7	6	1	..	..	..	..	..	..	..	..	..	....	..	..	..	..	3	4	....	7	..	....	2	..	....	2	..	2	..	..	..	..	..	..	..	..	..
9. Diphtheria and croup	7	..	1	1	..	..	2	1	..	..	..	1	....	..	1	..	..	1	6	....	6	1	....	5	1	1	1	1	..	..	..	1	1	1	1	..	..	..
10. Influenza	8	1	..	..	..	..	..	..	..	1	..	1	1	..	2	1	1	6	2	....	4	2	2	2	6	....	..	3	2	1	1	..	..	..	1	..	..	..
14. Dysentery	1	1	..	..	..	..	..	..	..	..	..	..	....	..	..	..	..	1	..	....	1	..	....	..	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..
18. Erysipelas	3	2	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	2	1	....	3	..	....	2	1	....	..	..	..	..	..	1	..	1	..	..	1	..
20. Purulent infection and septicæmia	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	..	1	....	..	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	45	1	..	..	..	..	1	6	12	11	7	5	2	..	..	..	..	24	21	....	38	6	1	32	12	1	3	1	4	6	3	6	3	4	1	4	..	3
30. Tuberculous meningitis	2	..	..	..	1	..	..	..	1	..	..	..	....	..	..	..	..	1	1	....	2	..	....	2	..	....	..	1	..	..	..	1	..	..	..	..	..	..
31. Abdominal tuberculosis	2	..	..	..	..	..	..	..	..	2	..	..	....	..	..	..	..	..	2	....	2	..	....	..	2	....	..	..	..	..	..	1	..	1	..	..	..	..
32. Pott's disease	1	..	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	..	....	1	..	....	1	..	....	..	..	..	..	..	..	..	..	..	..	..	..
33. White swelling	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	....	1	..	....	1	..	....	..	..	..	..	..	..	..	..	..	..	..	..
34. Tuberculosis of other organs	2	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	2	..	....	2	..	....	..	1	1	..	1	..	..	..	..	1	..	..	..	..	..
36. Rickets	1	1	..	..	..	..	..	..	..	..	..	..	....	..	..	..	..	..	1	....	1	..	....	..	1	....	..	..	..	..	..	..	..	..	..	..	..	1
39. Cancer and other malignant tumors of the buccal cavity	3	..	..	..	..	..	..	..	..	..	..	..	2	..	1	..	..	2	1	....	2	1	....	..	2	....	1	..	..	..	..	..	2	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	15	..	..	..	..	..	..	..	..	..	1	1	4	5	4	..	..	11	4	....	13	1	1	2	12	1	2	1	..	2	..	3	..	1	1	1	3	1
41. Cancer and other malignant tumors of the peritoneum, intestines, rectum	6	..	..	..	..	..	..	..	..	..	1	1	1	..	3	..	..	4	2	....	3	2	1	1	4	1	1	..	..	..	1	..	1	..	..	1	1	1
42. Cancer and other malignant tumors of the female genital organs	2	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	2	....	2	..	....	2	..	....	..	1	..	..	..	..	..	..	..	1	..	..
43. Cancer and other malignant tumors of the breast	2	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	2	....	1	1	....	2	..	....	1	..	..	1	..	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	6	..	..	..	..	..	..	..	..	..	..	3	2	1	..	..	..	4	2	....	5	1	....	..	5	1	1	1	..	..	1	1	1	1	..	..	..	..
47. Acute articular rheumatism	2	..	..	..	..	..	1	..	..	..	..	1	....	..	..	..	..	1	1	....	1	1	....	1	1	....	..	..	..	1	1	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	5	..	..	..	..	..	..	..	..	..	..	..	1	1	2	1	..	2	3	....	3	2	....	1	3	1	1	..	..	..	..	..	1	1	..	..	..	..
50. Diabetes	7	..	..	..	..	..	1	..	..	2	..	1	..	1	1	1	..	5	2	....	6	1	....	3	4	....	..	..	1	..	1	1	1	1	1	1	..	..
51. Exophthalmic goitre	3	..	..	..	..	..	..	..	..	..	1	..	....	1	1	..	..	1	..	....	2	1	....	2	1	....	..	..	1	..	..	..	..	..	..	1	1	..
52. Addison's disease	2	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	2	..	....	2	..	....	1	1	....	..	..	1	..	..	..	..	..	..	..	..	1
54. Anæmia, chlorosis	6	2	..	..	..	..	..	..	..	..	1	2	1	..	..	..	..	3	3	....	5	..	1	3	1	2	..	1	..	..	3	1	..	..	1	..	..	..
55. Other general diseases	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	....	1	..	....	..	1	....	..	..	..	..	..	..	..	..	..	..	..	..
56. Alcoholism (acute or chronic)	4	..	..	..	..	..	..	..	..	2	..	2	..	..	..	..	..	4	..	....	3	1	....	2	2	....	..	2	..	..	..	..	..	..	1	..	1	..

HASTINGS—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	69	12	3	..	1	1	2	1	1	3	1	6	5	13	16	3	1	35	34	....	52	11	6	29	38	2	2	8	12	8	3	11	5	5	5	3	4	3
60. Encephalitis	1	....	..	..	1	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
61. Simple meningitis	10	7	2	..	..	..	1	..	..	....	..	..	....	..	..	..	..	6	4	....	10	....	....	10	....	....	..	1	2	1	1	1	..	2	2	..	..	..
63. Other diseases of the spinal cord	6	1	..	..	..	..	1	1	..	....	..	1	....	1	1	..	..	3	3	....	5	1	....	3	3	....	..	..	1	1	..	..	..	..	..	..	..	1
64. Cerebral hæmorrhage, apoplexy	24	....	..	..	..	..	..	..	1	....	..	3	3	7	8	1	1	9	15	....	13	8	3	7	15	2	2	6	3	4	..	5	2	1	..	..	..	1
66. Paralysis without specified cause	12	....	..	..	..	..	..	..	..	....	..	1	1	2	6	2	..	8	4	....	8	2	2	....	12	....	..	..	1	3	..	1	3	1	..	..	1	1
67. General paralysis of the insane	2	....	..	..	..	..	..	..	..	....	..	1	....	1	..	..	..	....	2	....	2	....	....	....	2	....	..	..	1	..	..	..	..	..	..	..	..	1
68. Other forms of mental alienation	3	....	..	..	..	..	..	..	..	1	1	..	....	1	..	..	..	1	2	....	2	....	1	1	2	....	..	..	1	..	..	..	..	..	..	..	..	..
69. Epilepsy	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	1	..	..	..	1	..	..	..	..
70. Convulsions (non-puerperal)	2	....	..	..	..	1	..	..	..	1	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	1	1	..	..	2	..	1	..	..	..
71. Convulsions of infants	5	4	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	5	....	....	5	....	....	5	....	....	..	..	..	..	..	..	..	..	..	..	..	..
73. Neuralgia and neuritis	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
74. Other diseases of the nervous system	2	....	..	..	..	..	..	..	..	....	..	..	1	..	1	..	..	....	2	....	2	....	....	....	2	....	..	..	..	..	..	1	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	64	....	..	..	..	..	..	1	..	....	4	2	7	24	15	11	..	38	26	....	48	11	5	10	47	7	1	3	6	10	9	4	6	5	3	7	3	7
79. Organic diseases of the heart	36	....	..	..	..	..	..	1	..	....	4	2	6	11	7	5	..	15	21	....	28	5	3	6	25	5	..	1	4	5	7	..	3	2	3	5	2	4
80. Angina pectoris	3	....	..	..	..	..	..	..	..	....	..	..	....	3	..	..	..	2	1	....	2	1	....	....	3	....	..	1	..	1	..	..	..	..	..	..	..	1
81. Diseases of the arteries, atheroma, aneurysm, etc.	23	....	..	..	..	..	..	..	..	....	..	..	1	9	7	6	..	21	2	....	16	5	2	3	18	2	1	1	1	4	2	4	2	3	..	2	1	2
82. Embolism and thrombosis	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
83. Diseases of the veins (varices, hemorrhoids, phlebitis, etc.)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	1	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	84	19	1	4	..	..	..	..	1	6	3	2	8	8	21	10	1	59	25	....	62	20	2	34	46	4	10	15	18	11	8	2	6	3	..	3	2	6
87. Diseases of the larynx	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
88. Diseases of the thyroid body	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
89. Acute bronchitis	5	3	..	..	..	..	..	..	..	....	..	..	....	..	1	..	1	2	4	....	4	1	....	3	2	....	1	2	2	..	..	..	..	..	..	..	..	..
90. Chronic bronchitis	8	....	..	..	..	..	..	..	..	....	..	1	....	1	..	5	1	4	4	....	3	5	....	....	7	1	2	1	2	..	..	1	2	..	..	..	..	..
91. Broncho-pneumonia	11	6	..	..	..	..	..	..	..	....	..	..	....	..	4	1	..	7	4	....	10	1	....	5	6	....	2	1	2	2	2	..	..	..	..	1	1	..
92. Pneumonia	50	10	1	4	..	..	..	..	1	5	2	1	6	4	13	3	..	39	11	....	39	11	....	23	25	2	5	8	11	8	5	1	3	2	..	1	1	5
93. Pleurisy	3	....	..	..	..	..	..	..	..	1	..	..	1	1	..	..	..	1	2	....	3	....	....	....	3	....	..	1	..	..	1	..	..	..	..	..	..	1
94. Pulmonary congestion, pulmonary apoplexy	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	..	1	..	..
95. Gangrene of the lung	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	....	1	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
96. Asthma	3	....	..	..	..	..	..	..	..	....	..	..	1	..	2	..	..	3	....	....	1	1	1	....	3	....	..	1	..	1	..	..	..	1	..	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	55	23	5	3	2	..	2	..	1	3	3	1	7	3	2	..	..	30	25	....	52	1	2	41	13	1	6	2	8	1	5	1	6	7	6	4	7	2
102. Ulcer of the stomach	5	....	..	..	..	..	..	..	..	....	..	..	1	2	1	1	..	2	3	....	4	1	....	....	5	....	..	1	1	..	..	..	..	..	..	2	1	..
103. Other diseases of the stomach (cancer excepted)	4	1	..	1	1	..	..	..	..	....	..	..	1	..	..	..	..	2	2	....	4	....	....	3	1	....	..	..	..	..	..	..	..	1	1	..	1	1
104. Diarrhœa and enteritis (under 2 years)	26	21	5	..	..	..	..	..	..	....	..	..	....	..	..	..	..	15	11	....	26	....	....	26	....	....	3	..	5	1	1	..	4	6	3	2	1	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
XIII.—Affections Produced by External Causes.																																						
Group Total	36	....	..	2	..	..	..	1	2	8	4	2	3	4	4	3	3	28	8	....	22	9	5	10	23	3	2	2	1	2	1	3	6	2	4	6	4	3
155. Suicide by poison	2	....	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	....	2	....	2	....	....	1	1	....	1	..	..	..	..	..	..	..	..	1	..	..
159. Suicide by firearms	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1
165. Other acute poisonings	3	....	..	2	..	..	..	..	..	....	1	..	....	..	..	..	..	1	2	....	3	....	....	2	1	....	..	..	1	..	..	..	..	..	1	1	..	..
167. Burns (conflagration excepted)	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..
169. Accidental drowning	4	....	2	..	..	..	..	..	1	1	1	..	....	..	..	..	1	2	2	....	1	3	....	1	3	....	..	..	..	..	..	1	1	..	..	2	..
174. Traumatism by machines	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	12	....	..	..	..	..	..	1	..	6	1	..	1	1	..	..	2	12	....	....	7	3	2	5	6	1	1	1	..	3	..	..	..	1	1	2	2	1	1
178. Effects of heat	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..
179. Effects of heat	8	....	..	..	..	..	..	..	1	....	..	1	....	1	3	2	..	6	2	....	5	1	2	1	7	....	..	1	..	..	1	1	2	1	..	1	1	..
185. Fractures (cause not specified)	3	....	..	..	..	..	..	..	..	....	..	..	1	1	1	..	..	3	....	....	2	....	1	....	1	2	..	..	..	..	..	..	1	..	..	1	..	1
186. Other external violence																																						
XIV.—Ill-Defined Diseases.																																						
Group Total	31	1	1	..	..	..	1	1	..	6	2	3	5	5	1	..	5	17	14	....	18	1	12	10	18	3	3	3	4	1	4	2	1	2	..	5	1	5
188. Sudden death	2	....	..	..	..	..	..	..	..	....	1	1	....	..	..	..	..	....	2	....	1	....	1	1	1	....	..	..	1	..	1	..	..	..	..	..	..	..
189. Cause of death not specified or ill-defined	29	1	1	..	..	..	1	1	..	6	1	2	5	5	1	..	5	17	12	....	17	1	11	9	17	3	3	3	3	1	3	2	1	2	..	5	1	5
Still-Births.																																						
Not included in totals	38	35	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	20	15	....	35	....	....	35	....	....	2	4	1	2	3	2	2	3	3	3	4	6

CAUSES OF DEATH IN THE COUNTY OF HURON, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	600	60	6	7	3	.....	3	6	12	31	34	32	56	74	144	130	2	320	280	.....	337	195	68	175	373	52	53	65	58	53	51	42	33	47	49	48	42	50
I.—General Diseases.																																						
Group Total	148	6	2	..	..	..	1	3	6	19	21	16	22	24	24	4	..	79	69	....	96	29	23	58	79	11	12	14	10	13	15	12	9	11	13	14	12	15
1. Typhoid fever	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	..	..	..	1	1	..	..	..
7. Scarlet fever	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
8. Whooping cough	5	4	1	..	..	..	..	..	..	1	..	..	....	..	..	..	..	3	2	....	5	....	....	5	....	....	..	..	..	..	1	3	..	..	..	1	..	..	1
9. Diphtheria and croup	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..	..
10. Influenza	9	....	1	..	..	..	..	..	..	1	..	1	1	4	1	..	..	5	4	....	5	3	....	2	7	....	..	1	1	2	2	1	..	1	..	1	..	..
14. Dysentery	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	1
18. Erysipelas	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
20. Purulent infection and septicæmia	2	....	..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	2	....	....	2	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
28. Tuberculosis of the lungs	35	....	..	..	..	..	..	1	4	12	11	2	1	3	1	..	..	22	13	....	26	3	6	24	10	....	2	5	4	4	5	2	..	..	..	..	5	2
29. Acute miliary tuberculosis	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
30. Tuberculous meningitis	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..	..
31. Abdominal tuberculosis	2	....	..	..	..	..	..	..	..	....	..	..	2	..	..	..	..	1	1	....	2	....	....	1	1	....	..	1	..	..	..	1	..	..	..	1	..	..
34. Tuberculosis of other organs	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	..	2	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	27	....	..	..	..	..	..	..	..	....	1	1	7	6	12	..	..	18	9	....	11	12	4	6	19	2	1	2	..	2	3	..	2	4	3	4	1	5
41. Cancer and other malignant tumors of the peritoneum, intestines, rectum	4	....	..	..	..	..	..	..	..	....	1	1	....	1	1	..	..	2	2	....	2	1	1	....	3	1	3	..	..	..	..	..	1	..	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	3	....	..	..	..	..	..	..	..	....	..	1	2	..	..	..	..	....	3	....	3	....	....	....	3	....	..	..	..	..	..	..	2	..	..	1	..	..
43. Cancer and other malignant tumors of the breast	5	....	..	..	..	..	..	..	..	....	..	..	3	1	..	1	..	....	5	....	2	2	1	1	4	....	..	..	..	1	..	..	..	..	2	1	..	1
44. Cancer and other malignant tumors of the skin	2	....	..	..	..	..	..	..	..	....	..	1	....	..	1	..	..	1	1	....	2	....	....	....	2	....	..	..	..	..	..	..	..	..	1	1	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	9	....	..	..	..	..	..	..	..	....	..	2	....	4	2	1	..	4	5	....	5	4	....	2	5	2	1	1	..	..	..	1	2	..	1	1	1	1
47. Acute articular rheumatism	7	....	..	..	..	..	1	2	..	2	..	1	....	..	1	..	..	4	3	....	4	1	2	4	2	1	2	1	..	..	..	1	..	..	1	..	..	..
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	..	..	....	..	1	....	1	..	..	..	1	1	....	1	....	1	....	2	....	..	..	..	..	..	..	1	..	..	..	..	..
50. Diabetes	4	....	..	..	..	..	..	1	..	....	2	..	1	..	..	..	..	1	3	....	1	3	....	1	3	....	..	1	1	..	..	..	..	..	..	..	1	..
51. Exophthalmic goitre	6	....	..	..	..	..	..	..	..	1	..	1	1	2	1	..	..	1	5	....	5	....	1	....	4	2	1	..	..	..	..	..	..	..	..	1	1	..
54. Anæmia, chlorosis	13	....	..	..	..	..	..	..	..	2	3	2	..	2	4	..	..	..	6	....	3	2	3	....	2	1	..	..	..	..	..	..	..	..	..	1	1	1
56. Alcoholism (acute or chronic)	3	....	..	..	..	..	..	..	..	....	..	..	1	1	1	..	..	2	1	....	3	....	....	....	2	1	..	..	..	..	..	..	..	..	..	1	..	1

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	53	4	1	1	2	..	..	1	1	1	2	2	6	14	13	5	..	28	25	....	35	13	5	19	31	3	4	5	5	4	7	4	4	3	3	3	5	6
61. Simple meningitis	6	2	..	..	2	..	..	1	..	....	..	1	....	..	..	..	..	4	2	....	6	....	....	6	....	....	..	1	..	1	2	..	..	..	..	1	1
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	28	....	..	..	..	..	..	..	..	....	..	1	3	9	11	4	..	13	15	....	16	10	2	4	23	1	3	2	2	2	2	2	1	3	2	1	3	5
65. Softening of the brain	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
66. Paralysis without specified cause	7	....	..	..	..	..	..	..	..	1	..	..	1	3	2	..	..	4	3	....	3	2	2	2	4	1	..	1	2	1	1	..	1	..	..	1	..	..
69. Epilepsy	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..
70. Convulsions (non-puerperal)	2	....	..	..	..	..	..	..	1	....	..	..	....	..	1	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	..	..	..	..	..	1	..	..
71. Convulsions of infants	3	2	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	....	....	3	....	....	3	....	....	..	1	..	..	1	..	..	..	1	..	..	..
73. Neuralgia and neuritis	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	1	1	....	2	....	....	....	2	....	..	..	..	..	..	..	..	..	1	..	..	..
74. Other diseases of the nervous system	2	....	..	1	..	..	..	..	..	....	1	..	....	..	..	..	..	1	1	....	1	....	1	1	....	1	..	..	..	..	..	..	..	..	2	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	94	....	..	..	..	..	..	..	1	1	..	4	9	15	40	24	..	49	45	....	39	42	13	4	76	11	9	8	6	6	8	7	5	12	7	11	3	12
78. Acute Endocarditis	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
79. Organic diseases of the heart	54	....	..	..	..	..	..	..	1	1	..	3	5	10	24	10	..	27	27	....	26	20	8	3	16	5	8	2	5	3	5	2	2	6	6	9	1	5
80. Angina pectoris	3	....	..	..	..	..	..	..	..	....	..	..	1	..	2	..	..	1	2	....	2	1	....	1	2	....	..	..	..	1	1	..	..	..	..	..	..	1
81. Diseases of the Arteries, atheroma, aneurysm, etc.	35	....	..	..	..	..	..	..	..	....	..	..	3	5	13	14	..	21	14	....	10	20	5	....	26	9	1	6	1	2	2	3	3	6	1	2	2	6
82. Embolism and thrombosis	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	46	6	1	1	1	..	..	..	1	2	1	1	5	6	13	8	..	23	23	....	28	14	4	17	27	2	4	10	9	4	4	3	..	2	1	1	6	2
89. Acute bronchitis	5	4	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	4	....	4	1	....	4	1	....	..	..	1	1	..	2	..	..	..	..	1	..
90. Chronic bronchitis	6	....	..	..	..	..	..	..	1	....	..	..	1	..	1	3	..	4	2	....	3	3	....	2	4	....	..	1	..	1	1	..	..	..	..	1	2
91. Broncho-pneumonia	5	1	1	..	1	..	..	..	..	....	..	..	....	..	..	1	1	4	1	....	5	....	....	3	2	....	1	1	1	1	..	..	..	..	1	..	..
92. Pneumonia	21	1	..	1	..	..	..	..	..	1	..	..	3	3	8	4	..	8	13	....	8	10	3	5	16	....	3	5	5	1	3	..	..	2	..	..	2	..
93. Pleurisy	4	....	..	..	..	..	..	..	..	....	1	..	1	1	1	..	..	3	1	....	3	....	1	2	1	..	1	..	1	..	..	..	..	1	..	1	..
96. Asthma	5	....	..	..	..	..	..	..	..	1	..	1	....	1	2	..	..	3	2	....	5	....	....	2	2	1	..	2	1	..	..	1	..	..	..	1	..
V.—Diseases of the Digestive System.																																						
Group Total	34	5	1	2	..	..	..	1	..	4	3	1	4	6	3	4	..	21	10	....	23	10	1	9	18	7	3	6	4	..	1	3	2	1	8	3	2	1
100. Diseases of the pharynx	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
102. Ulcer of the stomach	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	8	2	..	1	..	..	..	..	..	....	..	..	1	2	1	1	..	5	3	....	4	3	1	1	4	3	2	1	..	..	..	..	..	..	3	1	..	..
104. Diarrhœa and enteritis (under 2 years)	3	2	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	1	....	3	....	....	....	3	....	..	1	1	..	..	..	..	..	1	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
154. XII.—Old Age.																																						
Group Total	114	....	..	..	..	..	..	..	..	....	..	..	....	..	39	74	1	55	59	....	29	74	11	8	96	10	16	11	12	17	8	4	7	8	7	9	5	10
XIII.—Affections Produced by External Causes.																																						
Group Total	16	....	..	2	..	..	1	1	1	2	1	1	4	1	..	2	..	8	8	....	12	3	1	8	8	....	1	..	1	1	2	3	..	1	1	2	1	3
155. Suicide by poison	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..	..
157. Suicide by hanging or strangulation	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	1	1	....	2	....	....	....	2	....	..	..	..	..	..	..	..	..	..	..	1	..	1
158. Suicide by drowning	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..	..
165. Other acute poisonings	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	1	....	....	....	....	..	..	..	..	..	..	..	..	..	..	..	..	..
167. Burns (conflagration excepted)	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	1
169. Accidental drowning	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..	..
170. Traumatism by firearms	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
172. Traumatism by fall	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
174. Traumatism by machines	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	....	1	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	2	....	..	..	..	..	1	..	..	....	1	..	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	1	..	..	..	..	..	..	..	1
176. Injuries by animals	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..	..
185. Fractures (cause not specified)	2	....	..	1	..	..	..	..	..	....	..	..	1	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	..	1	1	..	..	..	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	12	....	1	1	..	..	1	..	..	....	1	3	1	2	1	..	1	5	7	....	7	1	4	6	5	1	..	2	..	3	..	1	..	2	3	1	..	..
188. Sudden death	2	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	1	1	1	....	....	....	2	....	1	1	..	1	..	1	..	..	..	..	..	..	..	..	..
189. Cause of death not specified or ill-defined	10	....	1	1	..	..	1	..	..	....	1	2	1	2	1	..	..	4	6	....	7	1	2	6	4	....	..	1	..	2	..	1	..	2	3	1	..	..
Still-Births.																																						
Not included in totals	31	31	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	17	12	2	31	....	....	31	....	....	1	3	1	3	..	1	2	5	3	2	1	6

CAUSES OF DEATH IN THE DISTRICT OF KENORA, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	146	24	4	3	1	....	5	1	5	14	25	7	17	14	13	5	8	86	60	....	93	31	22	68	54	24	6	12	8	9	19	19	11	16	14	9	7	16
I.—General Diseases.																																						
Group Total	38	2	1	1	1	..	3	1	1	2	9	3	6	4	2	1	1	16	22	....	25	6	7	18	18	2	1	1	4	3	8	3	3	5	3	4	..	3
1. Typhoid fever	2	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	1	1	....	....	1	1	1	1	....	..	1	..	..	..	..	1	..	..	..	..	..
6. Measles	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	2	..	..	..	..
7. Scarlet fever	4	....	....	....	1	....	2	....	....	1	....	....	....	....	....	....	....	1	3	....	4	....	....	4	....	....	..	..	..	..	..	..	..	..	..	..	..	..
13. Cholera nostras	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	1	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
14. Dysentery	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
18. Erysipelas	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	2	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	2	....	1	....	1	....	2	....	..	..	..	..	1	..	1	..	..	..	..	..
28. Tuberculosis of the lungs	6	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	1	1	....	1	1	....	1	1	....	..	..	..	..	..	..	1	..	..	..	..	..
30. Tuberculous meningitis	1	....	....	....	....	....	....	1	....	....	1	1	1	1	....	....	1	1	5	....	5	1	....	1	4	1	..	..	..	1	1	..	..	2	2	..	..	..
37. Syphilis	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	1	....	....	1	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
41. Cancer and other malignant tumors of the peritoneum, intestines, rectum	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....	1	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	4	....	....	....	....	....	....	....	....	....	1	....	....	1	2	....	....	2	2	....	4	....	....	1	3	....	1	..	1	1	1	..	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	2	....	....	....	....	....	....	....	....	....	1	..	1	....	....	....	....	....	2	....	2	....	....	....	2	....	..	..	..	..	..	1	..	..	..	..	..	1
47. Acute articular rheumatism	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
50. Diabetes	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	1	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
51. Exophthalmic goitre	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
54. Anæmia, chlorosis	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
55. Other general diseases	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
56. Alcoholism (acute or chronic)	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
	3	....	....	....	....	....	....	....	....	....	2	....	1	....	....	....	....	3	....	....	....	....	3	2	....	1	..	..	..	..	..	1	..	..	2	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	9	3	1	..	..	..	..	..	..	1	2	..	1	..	..	..	1	4	5	....	7	2	....	5	3	1	..	1	..	3	..	1	1	2	1	..	..	..
61. Simple meningitis	2	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	2	....	1	1	....	1	1	....	..	..	..	1	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	1	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	1	....	....	1	....	....	....	....	1	..	..	..	..	..	..	..	1	..	..	..	..
69. Epilepsy	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	1	..	..	..	..	..	..	1	..	..	..	..	..
71. Convulsions of infants	3	2	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	2	1	....	3	....	....	3	....	....	..	1	..	1	..	..	1	..	..	..	..	..
73. Neuralgia and neuritis	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
74. Other diseases of the nervous system	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..

KENORA—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
III.—Diseases of the Circulatory System.																																						
Group Total	16	....	..	..	..	..	..	..	..	....	3	1	3	3	3	2	1	11	5	....	8	4	4	2	9	5	2	1	2	..	..	2	2	1	1	2	2	1
79. Organic diseases of the heart	7	....	..	..	..	..	..	..	..	....	3	1	....	1	1	..	1	4	3	....	2	2	3	1	3	3	1	..	1	..	..	1	1	..	..	1	1	1
81. Diseases of the arteries, atheroma, aneurysm, etc.	9	....	..	..	..	..	..	..	..	....	..	..	3	2	2	2	..	7	2	....	6	2	1	1	6	2	1	1	1	..	..	1	1	1	1	1	1	..
IV.—Diseases of the Respiratory System.																																						
Group Total	14	....	..	..	..	..	..	..	..	1	2	..	2	5	4	..	..	9	5	....	8	3	3	2	9	3	..	3	1	1	2	2	..	1	..	1	1	2
87. Diseases of the larynx	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..	..
90. Chronic bronchitis	2	....	..	..	..	..	..	..	..	1	..	..	....	..	1	..	..	2	....	....	....	1	1	....	1	1	..	1	..	1	..	1	..	..	..	..	..	..
91. Broncho-pneumonia	2	....	..	..	..	..	..	..	..	....	..	..	1	..	1	..	..	1	1	....	1	....	1	1	1	....	..	..	..	..	..	1	..	1	..	..	..	..
92. Pneumonia	8	....	..	..	..	..	..	..	..	....	1	..	....	5	2	..	..	5	3	....	6	1	1	....	6	2	..	1	..	..	..	2	1	..	..	1	1	2
93. Pleurisy	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	7	2	..	1	..	..	..	..	2	1	..	..	....	..	1	..	..	5	2	....	5	2	....	6	1	....	1	..	1	..	..	1	1	1	1	..	..	1
101. Diseases of the œsophagus	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
104. Diarrhœa and enteritis (under 2 years)	2	2	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	..	..	..	..	..	..	1	..	1	..	..	..
105. Diarrhœa and enteritis (2 years and over)	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
108. Appendicitis and typhlitis	3	....	..	..	..	..	..	..	2	1	..	..	....	..	..	..	..	2	1	....	2	1	....	3	....	....	1	..	1	..	..	..	..	..	..	..	..	1
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	5	....	1	..	..	..	..	..	..	....	2	..	....	1	1	..	..	3	2	....	4	1	....	1	3	1	1	2	..	..	..	1	..	1	..	..	..	..
120. Bright's disease	3	....	..	..	..	..	..	..	..	....	1	..	....	1	1	..	..	2	1	....	2	1	....	....	2	1	1	1	..	..	..	1	..	..	..	..	..	..
122. Other diseases of the kidneys and adnexa	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
132. Salpingitis and other diseases of the female genital organs	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
XI.—Diseases of Early Infancy.																																						
Group Total	16	16	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	6	10	....	16	....	....	16	....	....	..	2	..	1	1	..	1	1	3	1	2	4
151. Congenital debility, icterus and sclerema	16	16	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	6	10	....	16	....	....	16	....	....	..	2	..	1	1	..	1	1	3	1	2	4
154. XII.—Old Age.																																						
Group Total	2	....	..	..	..	..	..	..	..	....	..	..	....	..	..	2	..	2	....	....	....	....	2	....	1	1	..	..	..	..	..	1	..	..	..	..	1	..

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	608	97	8	5	4	5	20	9	15	35	34	37	50	59	135	94	1	339	269	....	460	93	55	226	356	26	62	74	55	50	58	39	44	54	51	43	34	44
I.—General Diseases.																																						
Group Total	135	7	..	2	..	5	8	..	6	23	13	15	12	17	23	4	..	62	73	....	106	15	14	49	79	7	11	21	12	7	18	7	10	10	12	10	9	8
1. Typhoid fever	9	....	..	..	..	..	2	..	2	3	..	..	1	1	..	..	..	3	6	....	8	1	....	6	3	....	2	1	..	1	1	..	..	2	1	..	1
7. Scarlet fever	2	....	..	..	..	1	..	..	..	1	..	..	....	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	..	..	1	..	..	..	..	..
8. Whooping cough	6	4	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	4	2	....	6	....	....	6	....	....	..	1	..	..	..	3	..	..	2	..	..	..
9. Diphtheria and croup	5	....	..	1	..	..	4	..	..	....	..	..	..	..	..	..	..	3	2	....	5	....	....	5	....	....	1	..	..	..	..	..	..	1	1	..	1	1
10. Influenza	1	....	..	..	..	..	..	..	..	....	..	..	..	..	1	..	..	....	1	....	....	1	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
14. Dysentery	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
20. Purulent infection and septicæmia	3	....	..	..	..	..	..	..	..	1	..	..	....	1	1	..	..	3	....	....	2	....	1	....	3	....	..	..	..	..	..	..	..	..	..	..	..	1
28. Tuberculosis of the lungs	45	1	..	..	..	..	..	1	18	10	6	3	1	5	..	..	..	17	28	....	38	3	4	14	29	2	3	10	7	2	5	4	1	2	3	4	..	1
30. Tuberculous meningitis	3	1	..	1	..	1	..	..	..	....	..	..	....	..	..	..	..	1	2	....	3	....	....	3	....	....	..	..	..	..	1	..	..	1	1	..	..	..
31. Abdominal tuberculosis	3	....	..	..	..	..	..	..	..	....	2	1	....	..	..	..	..	2	1	....	3	....	....	....	3	....	1	..	..	..	1	..	1	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	2	....	..	..	..	..	..	..	..	....	..	..	....	2	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	..	..	..	1	..	1	..
40. Cancer and other malignant tumors of the stomach, liver	17	....	..	..	..	1	..	..	1	....	..	1	2	4	8	..	..	7	10	....	10	4	3	3	11	3	1	1	3	1	2	2	2	2	..	1	2	..
41. Cancer and other malignant tumors of the peritoneum, intestines, rectum	3	....	..	..	..	..	..	..	..	....	..	..	....	2	1	..	..	....	3	....	2	1	....	....	3	....	..	..	..	..	..	1	..	..	..	1	1	..
42. Cancer and other malignant tumors of the female genital organs	3	....	..	..	..	..	..	..	..	....	..	3	....	..	..	..	..	....	3	....	3	....	....	....	3	....	..	1	..	..	..	..	..	..	..	1	1	..
45. Cancer and other malignant tumors of other organs and of organs not specified	8	....	..	..	..	..	..	..	..	....	..	2	....	..	3	3	..	2	6	....	4	2	2	2	5	1	..	1	1	..	..	..	..	1	2	1	1	1
47. Acute articular rheumatism	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	4	....	..	..	..	..	..	..	..	....	..	..	2	..	1	1	..	2	2	....	3	....	1	1	3	....	3	..	..	..	..	..	..	..	..	..	..	1
50. Diabetes	8	....	..	..	..	..	1	..	1	....	..	1	1	3	1	..	..	6	2	....	5	1	2	2	5	1	..	2	..	1	3	..	..	..	..	..	1	1
54. Anæmia, chlorosis	8	....	..	..	..	..	..	1	..	....	..	1	2	2	2	..	..	5	3	....	6	1	1	2	6	....	..	1	..	1	..	..	2	1	1	1	..	1
56. Alcoholism (acute or chronic)	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	2	....	....	2	....	....	....	2	....	..	1	..	1	..	..	..	..	..	..	..	..
57. Chronic lead poisoning	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	73	7	3	1	1	..	4	4	..	2	3	3	8	9	20	8	..	37	36	....	60	10	3	25	46	2	6	7	2	8	9	7	10	6	6	3	2	7
61. Simple meningitis	14	5	2	1	..	..	3	1	..	1	1	..	....	..	..	..	..	7	7	....	14	....	....	12	2	....	..	1	..	3	4	1	1	3	1	..	..	..
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	....	1	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
63. Other diseases of the spinal cord	2	....	..	..	..	..	..	1	..	....	..	1	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	..	..	..	..	..	..	..	..

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KENT—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
VII.—The Puerperal State.																																						
Group Total	3	....	..	..	..	..	..	..	1	....	2	..	....	..	..	..	..	....	3	....	3	....	....	1	2	....	..	..	..	..	1	..	..	..	2	..	..	..
134. Accidents of pregnancy	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
136. Other accidents of labor	1	....	..	..	..	..	..	1	....	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
139. Puerperal phlegmasia alba dolens, embolus, sudden death	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	5	....	..	..	..	..	..	..	..	....	..	..	....	1	3	1	..	2	3	....	2	1	2	1	4	....	..	..	1	..	2	..	..	..	..	..	1	1
142. Gangrene	4	....	..	..	..	..	..	..	..	....	..	..	....	..	3	1	..	2	2	....	2	1	1	....	4	....	..	..	1	..	1	..	..	..	..	..	1	1
145. Other diseases of the skin and adnexa	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	....	1	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
X.—Malformations.																																						
Group Total	4	4	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	1	....	4	....	....	4	....	....	1	..	1	..	..	..	..	1	..	1	..	..	..
150. Congenital malformations (still-births not included)	4	4	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	1	....	4	....	....	4	....	....	1	..	1	..	..	..	..	1	..	1	..	..	..
XI.—Diseases of Early Infancy.																																						
Group Total	47	47	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	34	13	....	47	....	....	47	....	....	4	2	4	2	6	5	2	10	2	2	8	..
151. Congenital debility, icterus and sclerema	47	47	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	34	13	....	47	....	....	47	....	....	4	2	4	2	6	5	2	10	2	2	8	..
154. XII.—Old Age.																																						
Group Total	84	....	..	..	..	..	..	..	..	....	..	..	....	..	28	56	..	45	39	....	47	27	10	10	70	4	7	14	9	7	7	5	5	7	6	7	4	6
XIII.—Affections Produced by External Causes.																																						
Group Total	35	....	..	..	1	..	5	4	1	1	6	1	6	2	4	4	..	22	12	....	25	5	5	17	18	....	6	5	3	2	1	4	1	5	2	3	1	2
157. Suicide by hanging or strangulation	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	....	1	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
159. Suicide by firearms	2	....	..	..	..	..	..	..	..	....	1	..	....	..	..	1	..	2	....	....	2	....	....	....	2	....	1	..	..	..	..	..	..	1	..	..	..	..
167. Burns (conflagration excepted)	2	....	..	..	1	..	..	..	..	....	..	..	1	..	..	..	..	2	....	....	1	1	....	2	....	....	1	..	..	..	..	..	..	..	..	1	..	..
168. Absorption of deleterious gases (conflagration excepted)	2	....	..	..	..	1	..	1	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	1	..	..	1	..	..	..	..	..	..
169. Accidental drowning	5	....	..	..	..	1	2	..	..	....	1	..	1	..	..	..	..	4	1	....	3	1	1	5	....	....	2	..	..	..	..	1	..	1	1	..	..	..
172. Traumatism by fall	3	....	..	..	..	..	..	1	..	....	..	..	1	..	..	1	..	1	2	....	2	....	1	1	2	....	..	..	..	1	..	1	..	..	..	1	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	9	....	..	..	..	2	..	..	..	....	4	1	2	..	..	..	..	8	1	....	7	....	2	4	5	....	1	3	..	1	1	..	..	2	..	1	..	..
176. Injuries by animals	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
179. Effects of heat	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	..	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
185. Fractures (cause not specified)	4	....	..	..	..	..	..	..	..	1	..	..	....	..	2	1	..	....	4	....	3	1	....	....	4	....	..	1	..	..	..	..	..	1	..	..	..	2
186. Other external violence	5	....	..	..	..	..	1	..	..	....	..	..	1	..	2	1	..	3	2	....	3	2	....	2	3	....	1	1	1	..	..	..	..	1	1	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	2	....	..	1	..	..	..	..	..	....	1	..	....	..	..	..	..	2	....	....	1	....	1	1	1	....	..	..	..	1	..	..	..	..	1	..	..	..
189. Cause of death not specified or ill-defined	2	....	..	1	..	..	..	..	..	....	1	..	....	..	..	..	..	2	....	....	1	....	1	1	1	....	..	..	..	1	..	..	..	..	1	..	..	..
Still-Births.																																						
Not included in totals	36	36	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	25	11	....	36	....	....	36	....	....	1	1	5	6	4	2	7	3	4	2	1	..

CAUSES OF DEATH IN THE COUNTY OF LAMBTON, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	611	89	16	3	1	3	7	9	10	28	33	36	63	80	127	101	5	330	281	....	397	155	59	202	355	54	70	76	64	46	57	45	30	32	37	56	45	53
I.—General Diseases.																																						
Group Total	136	8	4	1	..	..	4	2	6	16	17	14	20	19	17	8	..	71	65	....	105	24	7	55	72	9	19	12	14	10	10	8	10	9	9	12	13	10
1. Typhoid fever	16	1	1	..	..	..	..	..	3	3	5	1	....	..	..	..	..	7	9	....	15	1	....	10	6	....	2	..	4	2	2	..	..	..	..	..	..	3
6. Measles	2	1	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	1	1	..	..	..	..	..	..	..	..
8. Whooping cough	4	4	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	4	....	4	....	....	4	....	....	..	..	..	..	..	..	1	..	1	..	2	..
9. Diphtheria and croup	2	1	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
10. Influenza	4	1	..	..	..	..	..	..	..	....	1	..	1	..	1	..	..	1	3	....	4	....	....	2	2	....	2	1	..	1	..	..	..	..	..	..	..	..
13. Cholera nostras	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
14. Dysentery	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	....	1	....	....	....	1	..	..	..	..	..	..	..	1	..	..	..	..
18. Erysipelas	6	....	1	1	..	..	..	1	..	....	..	1	....	1	1	..	..	4	2	....	4	1	1	3	2	1	1	..	..	..	1	..	..	1	..	..	1	..
20. Purulent infection and septicæmia	3	....	..	..	..	..	..	..	..	....	..	1	2	..	..	..	..	3	....	....	3	....	....	....	3	....	..	..	..	..	1	..	1	..	1	..	..	..
24. Tetanus	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
28. Tuberculosis of the lungs	29	....	..	..	..	..	..	..	3	8	8	5	4	..	2	..	..	16	13	....	25	2	2	17	12	....	5	4	3	2	1	2	2	1	2	4	1	2
31. Abdominal tuberculosis	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
37. Syphilis	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	6	....	..	..	..	..	..	..	..	....	..	1	2	..	2	1	..	6	....	....	3	2	1	1	4	1	2	1	..	..	..	1	..	..	..	1	..	1
40. Cancer and other malignant tumors of the stomach, liver	8	....	..	..	..	..	..	..	..	....	..	..	3	3	2	..	..	3	5	....	5	2	1	1	5	2	..	..	..	..	..	1	2	..	1	..	3	1
41. Cancer and other malignant tumors of the peritoneum, intestines, rectum	9	....	..	..	..	..	..	..	..	....	..	..	2	3	3	1	..	4	5	....	5	4	....	1	6	2	1	1	3	..	..	..	..	1	1	1	1
43. Cancer and other malignant tumors of the breast	2	....	..	..	..	..	..	..	..	1	..	..	....	..	..	1	..	....	2	....	2	....	....	....	2	....	..	1	..	1	..	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	10	....	..	..	..	..	..	..	..	1	..	1	1	4	2	1	..	4	6	....	7	2	1	2	7	1	1	..	..	..	3	..	..	1	1	..	2	2
47. Acute articular rheumatism	3	....	..	..	..	..	1	..	..	1	..	..	....	..	1	..	..	1	2	....	1	1	1	1	1	1	1	..	..	..	1	..	..	..	1	..	..	..
48. Chronic rheumatism and gout	9	....	..	..	..	..	..	..	..	....	1	2	3	1	1	..	..	5	4	....	6	3	....	3	6	....	..	1	2	..	..	..	2	1	1	2	..	..
50. Diabetes	3	....	..	..	..	..	..	..	..	....	..	..	....	1	..	2	..	3	....	....	3	....	....	1	2	....	1	1	..	..	..	1	..	..	..	..	..	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..
53. Leucæmia	3	....	..	..	..	..	..	..	..	....	..	1	1	..	1	..	..	....	3	....	2	1	....	1	2	....	1	..	..	..	1	..	..	1	..	..	..	..
54. Anæmia, chlorosis	8	....	..	..	..	..	..	..	..	1	..	1	....	4	2	..	..	4	4	....	6	2	....	....	8	....	1	1	..	1	..	..	1	1	..	..	3	..
56. Alcoholism (acute or chronic)	3	....	..	..	..	..	..	..	..	1	1	..	....	1	..	..	..	3	....	....	1	2	....	2	1	....	1	..	..	..	..	..	1	..	1	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	65	10	..	2	1	1	..	1	1	1	2	2	10	12	14	8	..	39	26	....	46	11	8	23	33	9	10	9	8	6	7	6	2	1	1	6	3
61. Simple meningitis	9	3	..	2	1	..	..	..	..	1	1	..	....	..	..	1	..	5	4	....	8	1	....	7	2	....	1	1	2	1	..	2	1	..	1	..	..	..
62. Locomotor ataxia	3	....	..	..	..	..	..	..	..	....	..	..	1	2	..	..	..	2	1	....	3	....	....	1	2	....	1	..	..	..	..	..	..	..	..	..	1	1

LAMBTON—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
63. Other diseases of the spinal cord	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	23	..	..	..	..	..	..	1	..	..	..	..	6	6	6	4	..	11	12	..	16	6	1	4	17	2	3	2	4	1	4	3	1	1	..	2	1	1
65. Softening of the brain	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..
66. Paralysis without specified cause	12	..	..	..	..	..	..	..	..	..	1	1	..	3	5	2	..	10	2	..	4	2	6	..	6	6	2	3	..	3	1	1	..	..	..	1	1	..
68. Other forms of mental alienation	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..
69. Epilepsy	3	..	..	..	..	..	..	..	..	..	..	1	1	..	1	..	..	2	1	..	2	..	1	2	..	1	2	1	..	..	..	..	..	..	..	..	..	..
70. Convulsions (non-puerperal)	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..
71. Convulsions of infants	7	7	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	1	..	7	..	..	7	..	..	..	..	..	2	1	..	..	..	..	1	2	1
73. Neuralgia and neuritis	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	1	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..
74. Other diseases of the nervous system	3	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..	..	1	2	..	2	1	..	..	3	..	1	1	..	..	..	..	..	..	..	..	1	..
III.—Diseases of the Circulatory System.																																						
Group Total	80	..	..	..	..	..	..	3	..	..	1	5	11	26	25	8	1	42	38	..	45	23	12	3	70	7	9	8	9	8	6	8	3	4	2	13	4	6
79. Organic diseases of the heart	53	..	..	..	..	..	..	3	..	..	..	3	9	18	17	2	1	25	28	..	32	12	9	3	46	4	9	6	3	4	4	6	1	3	2	9	3	3
80. Angina pectoris	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	24	..	..	..	..	..	..	..	..	..	1	..	2	7	8	6	..	16	8	..	12	10	2	..	21	3	..	1	5	4	1	2	2	1	..	4	1	3
82. Embolism and thrombosis	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..
85. Hæmorrhage; other diseases of the circulatory system	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	52	6	6	..	..	..	2	1	..	2	3	4	6	4	5	12	1	22	30	..	35	8	9	19	27	6	4	16	8	4	8	3	..	..	..	3	6
89. Acute bronchitis	3	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	3	..	..	3	..	..	..	..	1	1	..	..	..	..	..	1	..
90. Chronic bronchitis	8	..	..	..	..	..	..	..	..	..	..	..	1	..	1	6	..	4	4	..	5	2	1	1	7	..	1	2	1	..	2	..	..	..	..	..	..	2
91. Broncho-pneumonia	7	2	1	..	..	..	..	..	..	..	..	..	1	..	2	1	..	1	6	..	2	2	3	4	3	..	1	2	1	1	..	..	..	..	..	1	1
92. Pneumonia	24	3	2	..	..	1	1	..	2	2	3	3	2	2	2	1	13	11	..	20	1	3	8	12	4	1	9	4	2	3	2	..	..	..	..	1	2
93. Pleurisy	5	..	..	..	..	1	..	..	..	..	1	1	1	1	..	..	..	1	4	..	4	..	1	1	2	2	1	2	..	..	2	..	..	..	..	..	..	..
94. Pulmonary congestion, pulmonary apoplexy	3	..	1	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	2	..	1	1	1	1	2	..	..	..	1	..	1	..	..	..	..	..	..	1
96. Asthma	2	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	1	1	..	..	2	..	1	1	..	..	1	..	..	1	..	..	..	..	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	31	10	4	..	..	1	1	2	2	..	1	3	1	4	1	1	..	12	19	..	25	5	1	21	9	1	2	4	3	1	2	..	1	4	1	6	5	2
100. Diseases of the pharynx	2	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	2	..	1	1	..	2	..	..	1	..	..	..	1	..	..	..	..	..	..	..
102. Ulcer of the stomach	2	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	2	..	1	1	..	..	2	..	..	..	..	..	1	..	..	..	..	..	1	..
103. Other diseases of the stomach (cancer excepted)	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..
104. Diarrhœa and enteritis (under 2 years)	12	8	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	7	..	12	..	..	12	..	..	1	1	..	..	..	..	1	1	4	3	1	..
108. Appendicitis and typhlitis	4	..	..	..	..	..	2	2	..	..	..	..	..	..	..	..	..	1	3	..	3	..	1	3	..	1	..	1	..	1	..	..	..	..	1	1	..
109. Hernias, intestinal obstructions	3	..	..	..	..	..	..	..	..	..	1	..	1	..	1	..	..	2	1	..	1	2	..	..	3	..	..	..	3	..	..	..	..	..	..	..	..	..
110. Diseases of the intestines	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..
113. Cirrhosis of the liver	2	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	1	1	..	2	..	..	..	2	..	..	1	..	..	..	..	1	..	..	..	..	..
115. Other diseases of the liver	2	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	2	..	..	..	1	..	..	2	..	..	1	..	..	..	..	..	..	..	..	1	..
117. Simple peritonitis (non-puerperal)	2	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	2	..	2	..	..	2	..	..	..	..	..	..	..	..	..	1	..	..	..	1

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
XIII.—Affections Produced by External Causes.																																						
Group Total	33	....	2	..	..	1	..	..	..	5	5	6	5	2	4	2	1	29	4	....	20	10	3	9	19	5	2	4	1	3	1	1	5	3	3	6	1	3
157. Suicide by hanging or strangulation	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..	..
165. Other acute poisonings	2	....	1	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	1	....	1	....	1	1	....	1	..	..	1	..	..	..	..	..	1	..	..	..	..
167. Burns (conflagration excepted)	4	....	1	..	..	..	..	..	..	1	..	..	1	..	1	..	..	3	1	....	3	....	1	1	3	....	..	..	..	..	..	..	2	..	1	..	1	..
168. Absorption of deleterious gases (conflagration excepted	2	....	..	..	..	..	..	..	..	1	..	..	....	..	..	1	..	2	....	....	1	1	....	1	1	....	..	..	..	..	..	1	..	..	..	1	..	..
169. Accidental drowning	3	....	..	..	..	1	..	..	..	....	..	1	....	..	..	..	1	3	....	....	2	....	1	1	....	2	..	..	..	..	1	..	..	..	1	..	..	..
170. Traumatism by firearms	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	....	1	..	..	..	..	1	..	..	..	..	..	..	1
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	7	....	..	..	..	..	..	..	..	1	2	1	1	..	3	..	..	7	....	....	4	3	....	2	5	....	..	1	..	2	..	..	1	..	1	1	..	1
176. Injuries by animals	2	....	..	..	..	..	..	..	..	....	..	1	....	..	1	..	..	2	....	....	1	1	....	....	2	....	..	..	..	..	..	..	..	..	..	..	..	..
178. Excessive cold	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	..	..	..	..
181. Electricity (lightning excepted)	2	....	..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	2	....	....	2	....	....	....	2	....	..	..	..	..	..	..	..	1	..	1	..	..
185. Fractures (cause not specified)	5	....	..	..	..	..	..	..	..	....	..	2	....	2	..	1	..	3	2	....	1	4	....	1	4	....	2	1	..	..	..	..	..	2	..	..	..	..
186. Other external violence	3	....	..	..	..	..	..	..	..	....	1	1	1	..	..	..	..	3	....	....	2	1	....	1	2	....	..	1	..	..	..	..	..	..	..	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	8	....	..	..	..	..	..	..	1	....	1	..	3	3	..	..	..	4	4	....	4	3	1	2	6	....	..	3	..	..	1	..	1	1	..	1	1	..
189. Cause of death not specified or ill-defined	8	....	..	..	..	..	..	..	1	....	1	..	3	3	..	..	..	4	4	....	4	3	1	2	6	....	..	3	..	..	1	..	1	1	..	1	1	..
Still-Births.																																						
Not included in totals	35	35	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	26	9	....	35	....	....	35	....	....	5	1	3	7	1	..	2	5	1	6	1	3

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	428	70	7	4	1	3	5	8	11	28	34	33	40	42	70	67	5	223	205	.....	316	72	40	178	218	32	44	37	41	52	34	30	41	30	36	19	27	37
I.—General Diseases.																																						
Group Total	96	10	4	2	1	1	1	3	4	12	8	11	14	6	16	3	..	46	50	....	81	5	10	46	44	6	10	8	14	14	8	8	6	6	8	3	7	4
1. Typhoid fever	6	....	1	..	..	..	..	..	2	2	..	..	....	..	1	..	..	4	2	....	5	1	....	5	....	1	..	..	1	..	1	....	1	3	..	..	..	..
6. Measles	8	6	..	1	..	1	..	..	..	..	..	..	....	..	..	..	..	3	5	....	8	....	....	8	....	....	..	..	1	1	1	3	..	..	1	..	1	..
8. Whooping cough	4	3	1	..	..	..	..	..	..	..	..	..	....	..	..	..	..	2	2	....	4	....	....	4	....	....	1	1	2	..	..	..	..	..	..	..	..	..
9. Diphtheria and croup	5	....	1	1	1	..	..	2	..	..	..	..	....	..	..	..	..	3	2	....	5	....	....	5	....	....	1	1	..	..	..	..	..	..	1	1	..	1
10. Influenza	3	....	..	..	..	..	..	..	..	..	..	..	1	..	2	..	..	2	1	....	....	1	2	1	2	....	..	..	1	1	..	..	..	1	..	..	..	..
14. Dysentery	1	....	..	..	..	..	..	..	..	..	..	..	....	..	1	..	..	1	....	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
18. Erysipelas	3	....	..	..	..	..	..	..	..	..	..	..	1	..	2	..	..	3	....	....	3	....	....	1	1	1	..	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	24	1	1	..	..	..	..	1	..	9	5	4	2	..	1	..	..	10	14	....	20	....	4	13	11	....	3	3	3	3	..	3	4	1	1	2	1	..
31. Abdominal tuberculosis	2	....	..	..	..	..	1	..	..	....	1	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	1	..	..	..	1	..	..	..	..	..	..	..
35. Disseminated tuberculosis	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	2	....	..	..	..	..	..	..	..	..	..	..	....	..	1	1	..	1	1	....	1	1	....	....	2	....	..	..	1	1	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	8	....	..	..	..	..	..	..	..	..	..	..	1	1	4	2	..	3	5	....	6	1	1	....	8	....	..	..	..	..	5	..	1	..	1	..	1	..
41. Cancer and other malignant tumors of the peritoneum, intestines, rectum	5	....	..	..	..	..	..	..	..	..	..	1	1	2	1	..	..	4	1	....	5	....	....	1	4	....	..	..	..	..	2	1	1	..	..	..	..	1
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	..	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	9	....	..	..	..	..	..	..	..	..	3	2	3	1	..	..	..	2	7	....	7	1	1	3	5	1	2	..	1	1	1	..	1	1	....	2	..
50. Diabetes	2	....	..	..	..	..	..	1	..	..	1	..	....	..	..	..	..	....	2	....	2	....	....	1	1	....	1	..	..	..	..	..	..	..	..	1	..	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
53. Leucæmia	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	10	....	..	..	..	..	..	..	1	....	1	2	4	..	2	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	32	6	..	1	..	1	..	1	..	....	1	3	3	8	5	2	1	13	19	....	22	6	4	12	18	2	4	2	2	3	3	2	2	1	7	..	2	4
61. Simple meningitis	3	2	..	..	..	1	..	..	..	....	..	..	....	..	..	..	..	1	2	....	3	....	....	3	....	....	..	..	..	..	..	..	..	1	1	..	1	..
64. Cerebral hæmorrhage, apoplexy	14	....	..	..	..	..	..	..	..	..	1	..	7	3	2	1	..	5	9	....	7	3	4	1	11	2	..	2	1	2	2	..	1	..	3	..	1	2
66. Paralysis without specified cause	4	....	..	..	..	..	..	1	..	..	1	1	1	..	..	..	..	2	2	....	3	1	....	1	3	....	..	..	..	1	..	..	..	1	..	..	..	2	..
67. General paralysis of the insane	2	....	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	1	....	....	2	....	1	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..
70. Convulsions (non-puerperal)	1	....	..	..	..	..	..	..	..	..	1	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	1	..	..	..	..	..	..	..
71. Convulsions of infants	5	4	..	1	..	..	..	..	..	..	..	..	....	..	..	..	..	3	2	....	5	....	....	5	....	....	2	..	..	..	..	..	..	1	1	..	..	..	..
73. Neuralgia and neuritis	1	....	..	..	..	..	..	..	..	..	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..	..
74. Other diseases of the nervous system	2	....	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	....	2	....	2	....	....	....	2	....	1	..	..	..	..	..	..	..	..	..	1	..	..

LANARK—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
III.—Diseases of the Circulatory System.																																						
Group Total	64	....	..	..	..	..	1	1	1	1	5	4	13	13	14	11	..	33	31	....	42	13	9	15	41	8	6	10	6	11	6	6	2	5	2	..	6	4
77. Pericarditis	1	....	..	..	..	..	1	..	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
78. Acute Endocarditis	2	....	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	2	....	2	....	....	2	....	....	..	..	..	1	1	..	..	..	..	..	..	..
79. Organic diseases of the heart	43	....	..	..	..	..	..	1	....	5	3	9	9	10	6	..	21	22	....	29	10	4	9	27	7	4	7	4	7	4	5	1	2	..	..	6	3
80. Angina pectoris	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	....	1	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	17	....	..	..	..	..	..	..	..	....	..	..	4	4	4	5	..	10	7	....	10	3	4	3	13	1	2	3	2	2	1	1	1	2	2	..	..	1
IV.—Diseases of the Respiratory System.																																						
Group Total	34	3	1	1	..	..	..	2	..	3	5	5	3	2	5	4	..	17	17	....	26	6	2	16	14	4	2	3	9	1	3	2	2	4	..	1	1	3
87. Diseases of the larynx	3	....	..	..	..	..	..	..	..	....	2	1	....	..	..	..	..	2	1	....	3	....	....	....	2	1	1	..	..	..	..	..	..	1	1	..	..	..	..
90. Chronic bronchitis	2	....	..	..	..	..	..	..	..	....	..	..	..	..	1	1	..	2	....	....	2	....	....	1	1	....	..	..	..	1	..	..	..	..	..	..	..	1
91. Broncho-pneumonia	5	1	1	1	..	..	..	1	..	....	..	..	..	..	1	..	..	1	4	....	4	1	....	4	1	....	..	..	1	1	..	..	1	1	..	..	..	1
92. Pneumonia	18	2	..	..	..	..	..	1	..	2	2	3	2	1	2	3	..	8	10	....	13	4	1	9	7	2	1	2	6	1	2	2	..	2	..	1	..	1
93. Pleurisy	3	....	..	..	..	..	..	..	..	1	..	..	....	1	1	..	..	2	1	....	2	1	....	2	1	....	..	..	..	2	..	1	..	..	..	..	..	..
96. Asthma	2	....	..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	1	1	....	2	....	....	....	2	....	..	1	..	1	..	..	..	..	..	..	..	..
98. Other diseases of the respiratory system (tuberculosis excepted)	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	1	..
V.—Diseases of the Digestive System.																																						
Group Total	21	6	..	..	..	..	1	..	2	3	1	2	....	3	2	1	..	14	7	....	15	4	2	10	9	2	4	2	2	2	..	2	4	..	3	2	..	..
102. Ulcer of the stomach	2	....	..	..	..	..	..	..	..	....	..	1	....	..	1	..	..	2	....	....	1	....	1	....	2	....	..	..	..	1	..	1	..	..	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	2	2	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	..	1	1	..	..	..	..	..	..	..	..	..
104. Diarrhœa and enteritis (under 2 years)	4	4	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	3	....	4	....	....	4	....	....	1	..	..	..	..	..	..	..	2	1	..	..
105. Diarrhœa and enteritis (2 years and over)	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	1	1	....	2	....	....	....	1	1	..	..	..	..	..	..	1	1	..	..	..	..
108. Appendicitis and typhlitis	4	....	..	..	..	1	..	1	..	2	..	..	....	..	..	..	..	4	....	....	2	1	1	3	1	....	1	..	1	..	..	..	..	..	1	1	..	..
109. Hernias, intestinal obstructions	3	....	..	..	..	..	..	..	..	....	..	..	....	2	..	1	..	2	1	....	2	1	....	....	2	1	..	1	..	1	..	..	..	1	..	..	..	..
110. Diseases of the intestines	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
114. Biliary calculi	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
115. Other diseases of the liver	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
117. Simple peritonitis (non-puerperal)	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	17	....	..	..	..	..	..	..	..	2	5	..	1	5	2	1	1	..	9	8	....	12	5	....	3	13	1	1	2	2	2	1	3	2	1	1	..	1	1
119. Acute nephritis	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
120. Bright's disease	16	....	..	..	..	..	..	..	..	2	4	1	5	2	1	1	..	9	7	....	11	5	....	3	12	1	1	2	2	2	1	2	2	1	1	..	1	1
VII.—The Puerperal State.																																						
Group Total	4	....	..	..	..	..	..	..	..	1	2	1	....	..	..	..	..	....	4	....	4	....	....	....	4	....	1	..	1	..	..	..	..	..	1	1	..	..
134. Accidents of pregnancy	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	....	2	....	2	....	....	....	2	....	1	..	1	..	..	..	..	..	..	..	..	..
135. Puerperal hæmorrhage	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
136. Other accidents of labor	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..

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CAUSES OF DEATH IN THE COUNTY OF LEEDS AND GRENVILLE, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	896	102	14	8	4	3	14	4	8	53	51	74	89	109	210	137	16	482	414	....	655	149	92	306	522	68	93	93	67	71	88	60	71	49	71	71	84	78
I.—General Diseases.																																						
Group Total	222	8	3	3	2	2	6	1	6	33	28	28	36	33	31	1	1	105	117	....	180	28	14	83	135	4	24	22	12	18	29	13	18	14	19	16	22	15
1. Typhoid fever	9	....	..	1	..	..	..	..	..	5	2	1	....	..	..	..	..	6	3	....	8	1	....	6	3	....	..	..	1	2	..	..	1	..	..	1	3	1
6. Measles	4	1	1	..	1	1	..	..	..	....	..	..	....	..	..	..	..	....	4	....	4	....	....	4	....	....	..	..	1	..	..	..	..	..	..	..	1	1
7. Scarlet fever	2	....	..	..	..	..	2	..	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	1	1	..	..	..	..	..	..	..	..	..	..
8. Whooping cough	11	5	2	1	..	1	2	..	..	....	..	..	....	..	..	..	..	7	4	....	11	....	....	11	....	....	4	..	..	2	2	..	..	..	..	..	..	..
9. Diphtheria and croup	2	....	..	1	..	..	..	..	1	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	..	..	..	..
10. Influenza	5	1	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	2	....	3	2	....	3	2	....	..	2	..	..	..	..	..	..	..	2	..	..
13. Cholera nostras	1	....	..	..	..	..	..	..	..	....	..	..	1	1	1	..	..	1	....	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
14. Dysentery	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	4	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
28. Tuberculosis of the lungs	84	....	..	..	..	..	..	4	23	20	16	11	8	2	..	..	..	41	43	....	70	11	3	35	48	1	10	8	4	5	13	5	7	5	9	3	8	7
29. Acute miliary tuberculosis	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
30. Tuberculosis meningitis	3	1	..	..	1	..	..	..	..	1	..	..	....	..	..	..	..	2	1	....	2	....	1	3	....	....	..	1	..	..	..	..	..	..	..	..	..	..
31. Abdominal tuberculosis	5	....	..	..	..	..	..	..	1	1	2	..	....	1	..	..	..	....	5	....	4	1	....	2	3	....	1	..	..	..	..	..	1	..	..	..	..	..
34. Tuberculosis of other organs	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	....	2	....	1	1	....	1	1	....	..	..	..	..	..	..	..	..	..	..	..	..
35. Disseminated tuberculosis	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
37. Syphilis	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	4	....	..	..	..	..	..	..	..	....	..	..	2	1	1	..	..	2	2	....	4	....	....	....	4	....	..	..	1	..	..	1	..	..	..	1	1
40. Cancer and other malignant tumors of the stomach, liver	10	....	..	..	..	..	..	..	..	....	..	1	2	2	4	1	..	6	4	....	7	3	....	1	9	....	..	1	..	2	..	3	1	1	1	..	1	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	8	....	..	..	..	..	..	..	..	....	..	1	....	5	2	..	..	4	4	....	8	....	....	2	6	....	1	1	1	..	..	..	1	1	2	1	..	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	5	....	..	..	..	..	..	..	..	....	..	1	2	1	1	..	..	....	5	....	5	....	....	....	5	....	..	..	..	..	..	..	1	1	1	1	..	1
45. Cancer and other malignant tumors of other organs and of organs not specified	18	....	..	..	..	..	..	..	..	....	..	1	7	6	4	..	..	7	11	....	14	2	2	....	17	1	2	..	..	2	3	1	2	2	2	2	2	..
47. Acute articular rheumatism	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	....	1	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	6	....	..	..	..	..	..	..	..	....	..	..	1	1	4	..	..	4	2	....	3	2	1	4	1	1	1	1	1	..	..	..	..	..	..	..	..	..
50. Diabetes	9	....	..	..	..	..	1	1	..	....	1	1	....	1	4	..	..	1	8	....	8	1	....	6	3	....	..	2	2	..	1	..	..	1	..	1	..	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	2	1
53. Leucæmia	3	....	..	..	..	..	..	..	..	....	..	1	2	..	..	..	..	2	1	....	3	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	16	....	..	..	..	..	..	..	..	....	1	3	4	5	3	..	..	7	9	....	11	1	4	1	15	....	1	3	2	2	3	2	..	..	..	1	2	..
56. Alcoholism (acute or chronic)	3	....	..	..	..	..	..	..	..	....	..	1	1	..	..	..	1	....	....	....	1	1	1	1	1	....	..	..	..	..	1	..	..	..	..	..	1	..
57. Chronic lead poisoning	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1

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LEEDS AND GRENVILLE—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
105. Diarrhœa and enteritis (2 years and over)	3	....	..	1	..	..	1	..	..	....	..	..	....	..	1	..	..	....	3	....	3	....	....	3	....	....	..	..	1	..	..	..	..	1	1	..	..	..
108. Appendicitis and typhlitis	7	....	..	..	..	..	1	..	..	2	2	2	....	..	..	..	..	4	3	....	6	1	....	3	4	....	..	1	..	1	..	1	..	..	1	2	1	..
109. Hernias, intestinal obstructions	9	....	..	..	..	..	..	..	..	1	..	..	....	2	5	1	..	4	5	....	8	....	1	2	6	1	2	1	2	..	..	1	..	1	1	1	..	..
110. Diseases of the intestines	2	1	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	2	....	1	1	....	1	1	....	..	..	..	..	..	..	..	..	1	..	1	..
111. Acute yellow atrophy of the liver	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
113. Cirrhosis of the liver	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	1	1	....	2	....	....	....	2	....	..	..	..	..	..	..	1	..	..	..	1	..
115. Other diseases of the liver	5	1	..	..	..	..	..	..	..	....	..	..	....	2	2	..	..	3	2	....	3	1	1	2	3	....	..	..	2	1	1	..	..	..	..	..	..	1
117. Simple peritonitis (non-puerperal)	7	....	..	..	..	..	..	..	..	....	..	3	2	1	1	..	..	2	5	....	6	1	....	2	5	....	1	2	..	..	1	1	..	..	1	1	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	41	....	..	..	..	..	..	..	..	1	1	2	7	9	12	7	2	26	15	....	33	5	3	2	39	....	3	3	2	3	2	5	4	3	5	3	2	6
120. Bright's disease	33	....	..	..	..	..	..	..	..	1	1	2	5	8	8	6	2	19	14	....	2	2	2	2	31	....	3	3	2	1	1	5	4	2	3	3	..	6
123. Calculi of the urinary passages	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
124. Diseases of the bladder	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
126. Diseases of the prostate	6	....	..	..	..	..	..	..	..	....	..	..	1	1	3	1	..	6	....	....	3	2	1	....	6	....	..	..	..	2	1	..	..	1	1	..	1	..
VII.—The Puerperal State.																																						
Group Total	4	....	..	..	..	..	..	..	..	2	2	..	....	..	..	..	..	....	4	....	4	....	....	....	4	....	..	1	..	2	..	..	1	..	..	..	..	..
135. Puerperal hæmorrhage	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
136. Other accidents of labor	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
137. Puerperal septicæmia	2	....	..	..	..	..	..	..	..	2	..	..	....	..	..	..	..	....	2	....	2	....	....	....	2	....	..	1	..	1	..	..	..	..	..	..	..	..
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	5	....	1	..	..	..	..	..	..	....	..	..	....	1	..	3	..	4	1	....	3	2	....	1	4	....	1	1	..	..	..	1	..	..	1	..	1	..
142. Gangrene	3	....	..	..	..	..	..	..	..	....	..	..	....	1	..	2	..	3	....	....	2	1	....	....	3	....	1	1	..	..	..	..	..	..	1	..	..	..
144. Acute abscess	2	....	1	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	1	....	1	1	....	1	1	....	..	..	..	..	..	1	..	..	..	1	..	..
X.—Malformations.																																						
Group Total	3	3	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	....	....	3	....	....	3	....	....	..	..	..	..	..	..	..	1	..	..	1	1
150. Congenital malformations (still-births not included)	3	3	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	....	....	3	....	....	3	....	....	..	..	..	..	..	..	..	1	..	..	1	..
XI.—Diseases of Early Infancy.																																						
Group Total	54	54	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	24	30	....	54	....	....	54	....	....	2	5	1	3	4	2	5	4	3	11	7	7
151. Congenital debility, icterus, and sclerema	49	49	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	22	27	....	49	....	....	49	....	....	2	3	1	3	4	2	5	3	3	10	7	6
152. Other diseases peculiar to early infancy	4	4	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	2	....	4	....	....	4	....	....	..	2	..	..	..	..	..	..	..	1	..	1
153. Lack of care	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..

| 154. | | |

CAUSES OF DEATH IN THE COUNTIES OF LENNOX AND ADDINGTON, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	229	30	6	2	1	.....	2	4	5	10	14	14	23	22	48	48	.....	121	108	.....	149	47	33	71	140	18	22	17	24	23	14	19	16	16	18	22	15	23
I.—General Diseases.																																						
Group Total	52	2	2	..	1	..	1	1	1	5	5	9	10	5	9	1	..	24	28	....	36	7	9	15	34	3	4	6	8	7	4	8	2	3	3	1	3	3
1. Typhoid fever	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	1	..	1	..	..	..	..	..	..	..
8. Whooping cough	3	2	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	1	....	3	....	....	3	....	....	..	1	..	1	1	..	..	..	..	..	..	..
9. Diphtheria and croup	2	....	..	..	1	..	1	..	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	1	..	..	..	1	..	..	..	..	..	..
10 Influenza	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
24. Tetanus	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	10	....	..	..	..	..	..	..	..	....	3	2	2	....	1	2	..	6	4	....	8	....	2	1	7	2	1	1	2	..	2	3	..	..	..	1	..	..
30. Tuberculous meningitis	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	6	....	..	..	..	..	..	..	..	....	..	1	3	1	1	..	..	5	1	....	4	1	1	2	3	1	..	2	..	1	..	..	..	1	..	..	2	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	3	....	..	..	..	..	..	..	..	....	1	..	1	..	1	..	..	....	3	....	2	1	....	....	3	....	1	..	1	1	..	..	..	..	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	2	....	..	..	..	..	..	..	..	....	..	1	1	..	..	..	..	....	2	....	1	1	....	..	2	....	..	..	..	..	..	..	..	..	..	..	1	1
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	3	....	..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	1	2	....	1	....	2	2	1	....	..	..	1	..	..	..	..	..	2	..	..	..
47. Acute articular rheumatism	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	....	1	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	..	..	....	1	..	....	1	..	..	..	....	2	....	1	....	1	....	2	....	..	..	..	1	..	..	1	..	..	..	..	..
50. Diabetes	2	....	..	..	..	..	..	..	..	....	..	..	....	..	1	1	..	....	2	....	1	1	....	....	2	....	1	1	..	..	..	..	..	..	..	..	..	..
51. Exophthalmic goitre	3	....	..	..	..	..	..	..	..	....	..	..	1	2	..	..	..	1	2	....	3	....	....	....	3	....	..	..	..	..	1	..	..	1	..	..	..	1
52. Addison's disease	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
54. Anæmia, chlorosis	8	....	..	..	..	..	..	1	..	....	..	1	3	..	3	..	..	1	7	....	4	2	2	3	5	....	1	..	2	2	..	1	2	..	..	..	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	16	2	1	..	..	..	..	..	..	....	1	1	....	4	6	1	..	8	8	....	9	5	2	6	9	1	1	3	1	2	1	1	2	1	..	1	..	3
61. Simple meningitis	3	1	1	..	..	..	..	..	..	....	..	..	....	1	..	..	..	2	1	....	3	....	....	2	1	....	..	..	1	..	..	..	..	1	..	..	..	1
64. Cerebral hæmorrhage, apoplexy	4	....	..	..	..	..	..	..	..	....	..	..	....	1	3	..	..	3	1	....	2	1	1	....	4	....	..	1	..	..	..	..	1	..	..	..	..	2
65. Softening of the brain	3	....	..	..	..	..	..	..	..	....	..	..	....	..	2	1	..	....	3	....	1	1	1	1	2	....	..	..	..	..	1	..	1	..	..	1	..	..
66. Paralysis without specified cause	2	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	2	....	....	..	2	....	1	....	1	1	..	..	..	1	..	..	..	..	..	..	..
69. Epilepsy	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..

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LENNOX AND ADDINGTON—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
145. Other diseases of the skin and adnexa	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
IX.—Diseases of the Bones and of the Organs of Locomotion.																																						
Group Total	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
146. Diseases of the bones (tuberculosis excepted)	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
XI.—Diseases of Early Infancy.																																						
Group Total	20	20	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	15	5	....	20	....	....	20	....	....	..	..	..	1	2	..	3	2	2	9	5	3
151. Congenital debility, icterus, and sclerema	20	20	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	15	5	....	20	....	....	20	....	....	..	..	..	1	2	..	3	2	2	2	5	3
154. XII.—Old Age.																																						
Group Total	44	....	..	..	..	..	..	..	..	....	..	..	....	..	14	30	..	23	21	....	20	19	5	3	38	3	8	4	3	2	3	2	2	2	3	8	2	5
XIII.—Affections Produced by External Causes.																																						
Group Total	6	....	..	..	..	..	1	1	1	....	1	..	....	..	2	..	..	5	1	....	4	1	1	4	1	1	1	..	..	2	..	1	..	..	1	..	..	1
167. Burns (conflagration excepted)	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
169. Accidental drowning	3	....	..	..	..	..	..	1	1	....	1	..	....	..	..	..	..	3	....	....	1	1	1	2	....	1	..	..	..	1	..	1	..	..	..	..	..	1
172. Traumatism by fall	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
185. Fractures (cause not specified)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
XIV.—Ill-defined Diseases.																																						
Group Total	7	....	1	..	..	..	..	1	1	..	1	1	2	..	..	..	..	2	5	....	6	....	1	3	3	1	..	..	..	..	..	1	..	..	3	1	2
188. Sudden death	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
189. Cause of death not specified or ill-defined	6	....	1	..	..	..	..	1	1	..	1	1	1	..	..	..	..	2	4	....	5	....	1	3	2	1	..	..	..	..	..	1	..	..	3	..	2
Still-births.																																						
Not included in totals	6	6	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	2	1	6	....	....	6	....	....	1	..	1	1	..	..	1	1	1	..	..	..

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	460	85	4	5	1	4	6	2	10	24	27	22	42	59	102	62	5	254	206	1	304	130	26	169	270	21	38	43	46	39	30	25	38	39	50	41	29	42
I.—General Diseases.																																						
Group Total	95	4	2	1	..	3	2	1	2	10	11	10	14	13	16	5	1	54	41	....	66	23	6	26	62	7	12	7	8	11	7	2	7	8	10	9	7	7
1. Typhoid fever	6	....	..	..	..	..	..	..	1	2	..	1	1	..	1	..	..	5	1	...	4	2	....	2	4	....	1	..	..	..	..	..	..	1	..	3	1	..
7. Scarlet fever	3	....	..	..	..	2	1	..	..	..	..	..	..	..	..	..	..	2	1	....	3	....	....	3	....	....	..	..	..	..	..	..	..	1	..	1	..	..
8. Whooping cough	6	3	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	4	2	....	6	....	....	6	....	....	..	..	..	2	2	1	..	..	..	..	..	1
10. Influenza	4	....	..	..	..	..	..	..	..	..	..	..	1	1	1	1	..	1	3	....	4	....	....	....	4	....	..	1	1	..	..	..	..	..	..	..	2	..
14. Dysentery	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
18. Erysipelas	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	26	1	..	..	..	..	..	1	1	5	8	5	1	2	1	1	..	15	11	....	17	7	2	8	16	2	4	1	1	3	3	..	1	2	4	3	2	2
34. Tuberculosis of other organs	2	....	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	1	1	....	2	....	....	....	2	....	..	..	..	..	..	..	..	..	1	..	..	1
39. Cancer and other malignant tumors of the buccal cavity	2	....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	2	....	....	....	1	1	....	2	....	..	..	..	1	..	..	..	1	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	10	....	..	..	..	..	..	..	..	..	..	1	3	1	4	1	..	8	2	....	4	5	1	....	8	2	2	1	2	2	1	..	1	..	1	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	5	....	..	..	..	..	..	..	..	..	..	..	..	2	2	1	..	2	3	....	4	1	....	....	5	....	..	..	1	1	..	..	..	1	1	..	..	1
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	..	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
45. Cancer and other malignant tumors of other organs and of organs not specified	6	....	..	..	..	..	..	..	..	..	..	..	2	..	3	1	..	4	2	....	5	1	....	1	4	1	1	..	..	..	..	1	2	2	..	..	..	..
47. Acute articular rheumatism	2	....	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	2	....	1	....	1	1	1	....	..	..	..	..	..	..	..	..	..	..	..	1
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	2	....	....	1	1	....	1	1	..	1	..	..	..	..	..	..	..	..	1	..	..
50. Diabetes	6	....	..	..	..	..	..	..	1	..	..	1	3	1	..	..	..	2	4	....	3	2	1	....	5	1	1	..	..	1	..	..	1	..	1	1	..	1
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	....	....	1	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..	..
52. Addison's disease	1	....	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..	..
53. Leucæmia	1	....	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	5	....	..	..	..	..	..	..	..	..	..	..	2	2	1	..	..	4	1	....	5	....	....	1	4	....	..	1	..	..	1	1	1	..	..	..	1	..
55. Other general diseases	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
56. Alcoholism (acute or chronic)	2	....	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	1	1	....	1	1	....	1	1	....	..	..	..	..	1	..	1	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	49	10	..	..	..	1	3	..	1	1	1	2	5	10	8	7	..	28	21	....	30	17	2	20	27	2	4	4	5	4	4	2	3	4	8	1	2	3
61. Simple meningitis	3	1	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	2	1	....	2	1	....	3	....	....	..	..	..	..	..	1	1	..	..	..	1	..
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
63. Other diseases of the spinal cord	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..
64. Cerebral hæmorrhage, apoplexy	15	..	..	..	..	..	..	..	1	..	..	1	2	5	3	3	..	9	6	..	7	7	1	3	10	2	2	2	1	3	1	..	1	..	3	..	2	..
65. Softening of the brain	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..
66. Paralysis without specified cause	10	..	..	..	..	..	..	..	..	..	..	1	1	2	3	3	..	5	5	..	3	6	1	..	10	..	1	2	1	..	2	..	..	2	..	..	2	..
67. General paralysis of the insane	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..
69. Epilepsy	2	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..	2	..	1	1	..	1	1	..	..	..	1	..	..	1	..	..	..	..	..	..
70. Convulsions (non-puerperal)	2	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	2	..	..	2	..	..	2	..	..	..	..	..	..	..	..	..	1	1	..	..	..
71. Convulsions of infants	9	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	4	..	9	..	..	9	..	..	..	..	..	1	..	1	..	1	..	2	1	1	2
73. Neuralgia and neuritis	3	..	..	..	..	..	..	..	..	..	..	..	1	1	1	..	..	1	2	..	2	1	..	..	3	..	..	..	1	1	..	..	..	..	..	..	..	1
75. Diseases of the eyes and their adnexa	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	54	..	..	..	..	..	..	1	..	2	2	3	10	8	22	4	2	27	27	..	38	12	4	11	42	1	3	1	5	5	1	5	9	7	4	4	4	6
78. Acute endocarditis	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..
79. Organic diseases of the heart	39	..	..	..	..	..	..	..	..	1	2	2	8	6	16	2	2	15	24	..	25	10	4	8	30	1	1	..	4	4	1	4	7	6	3	2	3	4
80. Angina pectoris	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	2	..	2	..	..	1	1	..	1	1	..	..	..	..	..	..	..	..	..	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	11	..	..	..	..	..	..	..	..	..	..	1	2	2	4	2	..	10	1	..	9	2	..	..	11	..	1	..	1	1	..	..	2	1	1	1	1	2
85. Hæmorrhage; other diseases of the circulatory system	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	69	11	..	3	..	..	..	..	1	1	5	4	2	12	20	9	1	34	35	..	38	26	5	17	50	2	11	13	10	4	5	5	3	4	3	6	..	5
89. Acute bronchitis	2	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	2	..	..	1	1	..	1	1	..	..	1	1	..	..	..	..	..	..	..	..	..
90. Chronic bronchitis	10	2	..	..	..	..	..	..	..	..	..	..	..	1	4	3	..	4	6	..	6	1	3	3	7	..	2	1	2	..	..	2	..	1	..	2	..	..
91. Broncho-pneumonia	4	1	..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	2	2	..	3	1	..	1	3	..	..	1	1	..	1	..	..	..	1	..	..	..
92. Pneumonia	43	6	..	3	..	..	..	..	1	1	4	3	1	7	14	3	..	20	23	..	21	20	2	11	30	2	8	8	5	4	2	2	3	2	1	3	..	5
93. Pleurisy	4	..	..	..	..	..	..	..	..	..	..	1	..	1	1	1	..	1	3	..	1	3	..	..	4	..	..	1	1	..	2	..	..	..	..	..	..	..
94. Pulmonary congestion, pulmonary apoplexy	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..
96. Asthma	5	..	..	..	..	..	..	..	..	1	..	1	2	..	..	1	..	4	1	..	5	..	..	..	5	..	1	1	..	..	..	1	..	1	..	1	..	..
V.—Diseases of the Digestive System.																																						
Group Total	35	15	1	1	..	..	..	..	2	1	4	1	2	4	3	1	..	18	17	..	29	6	..	24	11	..	1	2	4	1	..	1	3	6	7	6	2	2
103. Other diseases of the stomach (cancer excepted)	5	2	..	1	..	..	..	..	..	..	..	..	1	..	1	..	..	2	3	..	3	2	..	3	2	..	..	..	1	..	..	..	..	1	3	..	..	..
104. Diarrhœa and enteritis (under 2 years)	14	13	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	4	..	14	..	..	14	..	..	..	1	2	1	..	..	3	2	4	..	1	..
105. Diarrhœa and enteritis (2 years and over)	3	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	..	1	2	..	2	1	..	1	2	..	..	..	..	..	..	1	..	1	..	1	..	..
108. Appendicitis and typhlitis	3	..	..	..	..	..	..	2	..	1	..	..	..	..	..	..	..	..	3	..	3	..	..	2	1	..	..	1	..	..	..	..	..	..	..	1	..	1
109. Hernias, intestinal obstructions	5	..	..	..	..	..	..	..	..	..	1	1	1	2	..	..	..	2	3	..	2	3	..	2	3	..	1	..	1	..	..	..	..	1	..	2	..	..
113. Cirrhosis of the liver	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
115. Other diseases of the liver	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
117. Simple peritonitis (non-puerperal)	3	..	..	..	..	..	..	..	..	1	2	..	..	..	..	..	..	1	2	..	3	..	..	1	2	..	..	..	..	..	..	..	..	1	..	1	1	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	15	1	..	..	..	..	..	2	1	..	..	1	2	3	5	2	..	10	5	..	13	2	..	6	9	..	..	..	2	2	1	1	1	1	1	1	4	1
119. Acute nephritis	2	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	2	..	..	2	..	..	2	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..
120. Bright's disease	5	..	..	..	..	..	..	..	..	..	..	..	1	2	1	1	..	4	1	..	4	1	..	1	4	..	..	..	1	1	..	1	..	..	..	1	1	..
122. Other diseases of the kidneys and adnexa	4	..	..	..	..	..	..	1	..	1	..	..	..	..	1	1	..	1	3	..	4	..	..	3	1	..	..	..	..	1	..	..	1	..	1	..	1	..

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	69	15	1	1	1	2	1	1	2	2	4	3	3	8	15	10	.....	39	30	.....	46	14	9	29	24	16	8	6	9	7	6	5	7	5	5	6	1	4
I.—General Diseases.																																						
Group Total	13	....	1	..	..	1	..	..	2	1	2	2	2	2	..	..	..	8	5	....	12	....	1	5	2	6	..	..	2	2	2	..	3	1	1	2	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	1	..	..	..
28. Tuberculosis of the lungs	7	....	..	..	..	1	..	..	2	1	2	1	....	..	..	..	..	3	4	....	6	....	1	4	....	3	..	..	..	1	2	..	2	1	1	..	..	..
36. Rickets	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	....	1	..	..	..	1	..	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	....	1	..	..	1	..	..	..	..	..	..	..	..	..
50. Diabetes	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	1	1	....	2	....	....	....	2	....	..	..	..	..	..	..	1	..	..	1	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	4	1	..	..	..	..	..	..	..	..	..	..	....	1	1	1	..	3	1	....	2	1	1	1	3	....	1	..	1	..	..	..	1	..	..	..	..	1
64. Cerebral hæmorrhage, apoplexy	2	....	..	..	..	..	..	..	..	....	..	..	....	1	..	1	..	2	....	....	....	1	1	....	2	....	1	..	..	..	..	..	1	..	..	..	..	..
66. Paralysis without specified cause	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
71. Convulsions of infants	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																					
Group Total	2	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	2	....	....	1	1	....	....	1	1	1	1	..	..	..	..	..	..	..	..	..	..
79. Organic diseases of the heart	2	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	2	....	....	1	1	....	....	1	1	1	1	..	..	..	..	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																					
Group Total	3	1	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	2	1	....	3	....	....	1	1	1	1	1	..	..	..	1	..	..	..	1	..	..
89. Acute bronchitis	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
91. Broncho-pneumonia	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	2	....	....	2	....	....	....	1	1	1	1	..	..	..	..	..	..	..	1	..	..
V.—Diseases of the Digestive System.																																					
Group Total	2	....	..	..	..	..	..	..	..	....	1	..	....	..	1	..	..	2	....	....	1	1	....	1	1	....	..	..	..	..	..	..	1	1	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
115. Other diseases of the liver	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	1191	163	20	7	1	6	22	10	19	69	68	89	105	156	242	191	23	607	583	1	747	342	102	423	703	65	129	117	98	99	104	85	103	68	112	84	101	91
I.—General Diseases.																																						
Group Total	274	11	4	3	1	2	10	5	9	37	26	36	30	44	41	8	7	136	138	....	185	66	23	102	155	17	25	27	22	24	23	16	23	17	26	15	31	25
1. Typhoid fever	10	....	..	..	..	..	..	1	1	1	2	1	1	2	..	..	1	6	4	....	7	3	....	4	5	1	1	1	1	..	..	..	..	2	..	1	3	1
6. Measles	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
7. Scarlet fever	4	....	..	..	1	..	2	..	..	....	1	..	....	..	..	..	..	4	....	....	4	....	....	3	1	....	..	..	..	1	1	..	..	1	..	..	..	..	1
8. Whooping cough	8	4	1	1	..	..	2	..	..	....	..	..	....	..	..	..	..	2	6	....	8	....	....	8	....	....	1	1	..	1	..	..	..	..	1	3	1
9. Diphtheria and croup	5	....	1	..	..	1	2	1	..	....	..	..	....	..	..	..	..	1	4	....	5	....	....	5	....	....	1	..	..	1	..	..	..	..	..	..	..	1
10. Influenza	4	2	..	..	..	..	..	..	..	....	..	..	....	1	..	1	..	3	1	....	3	....	1	2	1	1	..	..	2	..	..	1	..	..	2	..	1	..
14. Dysentery	4	....	..	..	..	..	1	..	..	....	1	..	....	..	..	2	..	....	4	....	1	3	....	2	2	....	..	..	..	..	1	..	1	2	..	..	..	..
18. Erysipelas	3	1	..	..	..	..	..	..	..	....	1	..	....	..	1	..	..	1	2	....	2	1	....	....	3	....	..	..	1	..	..	1	..	1	..	..	..	..
20. Purulent infection and septicæmia	8	....	..	..	..	..	..	1	..	....	2	..	1	1	3	..	..	5	3	....	5	3	....	1	7	....	..	1	..	1	2	..	..	..	2	2	..	..
28. Tuberculosis of the lungs	78	....	..	..	..	..	..	..	2	29	11	16	7	7	1	1	1	34	44	....	62	10	6	36	37	5	8	8	7	11	4	2	7	4	8	3	7	9
29. Acute miliary tuberculosis	4	....	..	..	..	..	..	..	2	1	..	..	1	..	..	..	..	3	1	....	2	....	2	2	1	1	..	1	..	..	1	..	..	..	..	..	..	..
30. Tuberculous meningitis	9	4	..	2	..	1	2	..	..	....	..	..	....	..	..	..	..	2	7	....	9	....	....	9	....	....	1	..	..	1	1	1	1	1	..	2	..	1
31. Abdominal tuberculosis	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	....	1	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
34. Tuberculosis of other organs	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	..	..	..	..	1	..	1	..
35. Disseminated tuberculosis	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	....	1	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	9	....	..	..	..	..	..	..	..	....	..	..	2	3	3	1	..	7	2	....	2	5	2	2	7	....	2	..	1	1	1	3	1	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	16	....	..	..	..	..	..	..	..	....	..	2	5	4	4	1	..	13	3	....	9	7	....	2	13	1	1	3	1	..	2	..	..	3	1	..	3	2
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	11	....	..	..	..	..	..	..	..	....	1	1	....	3	4	..	2	5	6	....	6	3	2	1	7	3	1	1	..	..	..	3	..	1	1	..	2	2
42. Cancer and other malignant tumors of the female genital organs	3	....	..	..	..	..	..	..	..	....	1	1	1	..	..	..	..	....	3	....	2	1	....	....	3	....	..	..	..	2	..	..	..	..	..	..	1	..
43. Cancer and other malignant tumors of the breast	6	....	..	..	..	..	..	..	..	....	..	1	2	1	1	1	..	....	6	....	4	1	1	1	5	....	..	..	..	..	1	1	1	..	1	1	1	..
44. Cancer and other malignant tumors of the skin	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	26	....	..	..	..	..	..	..	..	1	..	4	5	9	6	..	1	12	14	....	13	11	2	5	20	1	2	4	1	2	2	1	3	2	1	3	2	3
46. Other tumors (tumors of the female genital organs excepted)	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
47. Acute articular rheumatism	7	....	..	..	..	..	1	1	1	2	..	..	....	1	1	..	..	4	3	....	2	3	2	5	2	....	1	1	2	1	..	..	2	..	..	..	..	..
48. Chronic rheumatism and gout	4	....	..	..	..	..	..	..	..	....	..	1	....	..	3	..	..	1	3	....	3	1	....	....	4	....	..	1	..	..	..	2	..	..	1	..	..	..
50. Diabetes	9	....	..	..	..	..	..	1	..	2	..	1	2	2	2	..	..	4	5	....	6	1	2	1	8	....	2	..	1	1	1	1	1	..	1	1	..	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	..	..	1	....	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
110. Diseases of the intestines	4	1	1	1	..	..	..	..	..	..	..	..	..	1	..	..	..	3	1	....	1	....	....	1	....	....	..	..	..	1	..	2	1	..	..	..	..	..
113. Cirrhosis of the liver	4	....	..	..	..	..	..	..	..	..	..	..	1	3	..	..	..	1	....	....	2	1	1	....	3	1	..	..	1	..	..	..	..	..	2	..	1	..
115. Other diseases of the liver	3	....	..	..	..	..	..	..	..	..	..	..	..	2	1	..	..	....	3	....	2	1	....	....	3	....	..	..	..	..	..	..	1	..	1	..	..	1
117. Simple peritonitis (non-puerperal)	4	....	1	..	..	..	..	..	..	..	..	..	..	1	2	..	..	2	2	....	3	1	....	2	2	....	..	..	..	..	..	1	..	1	2	..	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	73	....	..	..	..	..	1	1	..	2	4	3	7	17	21	4	3	41	32	....	41	29	3	15	55	3	5	5	7	3	6	7	7	4	11	7	4	7
119. Acute nephritis	7	....	..	..	..	..	1	1	..	1	..	1	....	1	2	..	..	2	5	....	6	1	....	3	1	....	..	1	1	..	1	1	..	2	1	..	..	..
120. Bright's disease	51	....	..	..	..	..	..	..	..	1	4	2	6	15	14	7	2	26	25	....	30	19	2	11	38	2	3	2	4	3	4	6	5	..	9	5	4	6
122. Other diseases of the kidneys and adnexa	6	....	..	..	..	..	..	..	..	..	..	..	1	..	2	3	..	5	1	....	1	5	....	....	6	....	1	1	1	..	1	..	..	..	1	1	..	..
124. Diseases of the bladder	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	....	....	....	....	1	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
126. Diseases of the prostate	7	....	..	..	..	..	..	..	..	..	..	..	..	3	4	..	..	7	....	....	3	4	....	1	5	1	1	..	1	..	..	..	2	1	..	1	..	1
132. Salpingitis and other diseases of the female genital organs	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
VII.—The Puerperal State.																																						
Group Total	17	....	..	..	..	..	..	..	2	6	3	5	..	..	..	..	1	....	17	....	11	4	2	3	13	1	1	2	2	1	2	3	..	1	..	1	2	2
136. Other accidents of labor	8	....	..	..	..	..	..	..	..	4	..	3	....	..	..	..	1	....	8	....	4	2	2	....	7	1	1	1	..	..	..	..	3	..	1	..	1	2	..
137. Puerperal septicæmia	4	....	..	..	..	..	..	..	2	....	..	2	....	..	..	..	..	....	4	....	2	2	....	2	2	....	..	1	..	1	1	..	..	..	..	..	..	1
138. Puerperal albuminuria and convulsions	4	....	..	..	..	..	..	..	..	1	3	..	..	..	..	..	..	....	4	....	4	....	....	1	3	....	..	1	1	..	1	..	1	..	..	..	..	..	1
139. Puerperal phlegmasia, alba dolens, embolus, sudden death	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	13	....	..	..	..	..	1	..	..	2	..	..	1	..	7	1	1	8	5	....	6	4	3	4	7	2	1	1	3	1	1	2	2	..	1	1	..	..
142. Gangrene	6	....	..	..	..	..	..	..	..	..	..	..	..	..	4	1	1	5	1	....	2	2	2	1	4	1	..	..	2	1	..	2	1	..	..	..	..	..
144. Acute abscess	7	....	..	..	..	..	1	..	..	2	..	..	1	..	3	..	..	3	4	....	4	2	1	3	3	1	1	1	1	..	1	..	1	..	1	1	..	..
IX.—Diseases of the Bones and of the Organs of Locomotion																																						
Group Total	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
146. Diseases of the bones (tuberculosis excepted)	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
X.—Malformations.																																						
Group Total	9	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	1	....	9	....	....	9	....	....	3	..	..	..	..	..	1	1	1	..	1	2	..
150. Congenital malformations (still-births not included)	9	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	1	....	9	....	....	9	....	....	3	..	..	..	..	..	1	1	1	..	1	2	..

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CAUSES OF DEATH IN THE DISTRICT OF MUSKOKA, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	209	28	3	.....	2	3	4	4	4	33	10	15	10	10	30	22	4	120	89	.....	126	62	21	93	97	19	20	15	14	21	20	18	21	17	13	15	14
I.—General Diseases.																																						
Group Total	72	1	..	..	1	3	1	1	..	27	11	9	6	6	4	1	1	44	28	....	48	17	7	38	28	6	9	2	5	10	11	5	6	5	6	2	7	4
1. Typhoid fever	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	....	....	1	..	..	..	..	..	..	..	..	..
6. Measles	1	....	..	..	..	1	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	....	....	....	..	1	..	..	..	..	..	..	..
8. Whooping cough	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	....	....	....	..	..	..	1	..	..	..	..	..
9. Diphtheria and croup	2	....	..	..	..	2	..	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	1	....	....	..	..	..	..	..	..	..	1	..
10. Influenza	3	....	..	..	..	..	..	..	..	1	..	..	....	1	..	1	..	2	1	....	2	1	....	1	2	....	1	..	1	..	..	..	..	..	..	..	1	..
28. Tuberculosis of the lungs	43	....	..	..	..	..	1	1	..	25	11	4	1	..	..	..	..	28	15	....	32	8	3	30	11	2	5	1	3	8	8	2	3	2	4	2	2	2
29. Acute miliary tuberculosis	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..
31. Abdominal tuberculosis	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	1	1	....	1	....	1	1	1	....	....	....	....	..	..	..	..	..	1	..	1	..
34. Tuberculosis of other organs	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	....	....	....	..	1	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	5	....	..	..	..	..	..	..	..	....	..	..	2	2	1	..	..	2	3	....	3	1	1	....	3	2	....	....	....	1	1	1	1	..	..	..	..	1
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	2	....	..	..	..	..	..	..	..	....	..	..	....	2	..	..	..	....	2	....	....	2	....	....	2	....	1	..	..	..	..	..	1	..	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	....	1	....	....	1	....	....	....	....	..	..	..	..	1	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	4	....	..	..	..	..	..	..	..	....	..	1	....	..	3	..	..	3	1	....	2	2	....	....	2	1	1	1	..	1	..	..	..	1	..	..	..	..
50. Diabetes	2	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	1	....	2	....	1	....	1	....	2	....	....	....	....	..	..	..	1	..	..	..	1	..
54. Anæmia, chlorosis	2	....	..	..	1	..	..	..	..	1	..	..	....	..	..	..	..	2	....	....	1	....	1	1	....	1	....	....	....	..	..	..	1	1	..	..	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	....	....	....	..	..	1	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	10	1	..	..	1	..	1	..	1	1	..	..	2	..	2	1	..	5	5	....	6	2	2	5	4	1	..	2	..	1	1	..	..	3	1	1	..	1
61. Simple meningitis	2	....	..	..	1	..	..	..	..	....	..	..	1	..	..	..	..	....	2	....	1	....	1	1	1	....	....	....	....	..	1	..	..	..	..	..	..	1
64. Cerebral hæmorrhage, apoplexy	4	....	..	..	..	..	..	..	1	....	..	..	1	..	2	..	..	2	2	....	2	2	....	1	2	1	..	1	..	..	..	..	..	2	..	1	..	..
66. Paralysis without specified cause	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	....	....	1	....	1	....	....	....	....	..	1	..	..	..	..	..	..	..
69. Epilepsy	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..
70. Convulsions (non-puerperal)	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	....	....	....	..	..	..	..	1	..	..	..	..
71. Convulsions of infants	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	....	....	....	..	..	..	..	1	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	21	25	26	27	28	29	30	31	32	33	31	35	36	37	38
XI.—Diseases of Early Infancy.																																						
Group Total	16	16	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	9	7	....	16	....	....	16	....	....	..	1	3	4	..	2	..	1	3	1	1	..
151. Congenital debility, icterus, and sclerema	16	16	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	9	7	....	16	....	....	16	....	....	..	1	3	4	..	2	..	1	3	1	1	..
154. XII.—Old Age.																																						
Group Total	32	....	..	..	..	..	..	..	..	....	..	..	....	..	15	17	..	18	14	....	12	18	2	1	28	3	3	1	1	3	4	2	3	1	1	4	4	2
XIII.—Affections Produced by External Causes.																																						
Group Total	18	....	1	..	..	..	1	2	2	3	2	1	3	..	1	..	2	16	2	....	8	4	6	10	4	4	1	1	2	..	1	3	5	4	..	..	..	1
167. Burns (conflagration excepted)	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
169. Accidental drowning	9	....	..	..	..	..	1	..	1	1	2	1	2	..	1	..	..	7	2	....	3	3	3	6	2	1	1	..	..	..	1	1	4	2	..	..	..	..
170. Traumatism by firearms	2	....	..	..	..	..	..	1	1	....	..	..	....	..	..	..	..	2	....	....	1	....	1	2	....	....	..	..	..	..	..	..	..	1	1	..	..	..
173. Traumatism in mines and quarries	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	..	..	..	1
174. Traumatism by machines	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	....	....	1	....	....	1	..	..	..	..	..	..	1	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	2	....	..	..	..	..	1	..	....	..	..	....	..	..	..	1	..	2	....	....	1	....	1	1	....	1	..	1	1	..	..	..	..	..	..	..	..	..
185. Fractures (causes not specified)	2	....	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	2	....	....	1	1	....	....	2	....	..	..	..	..	..	1	..	1	..	..	..	..
XIV.—Ill-defined Diseases.																																						
Group Total	9	1	..	..	..	..	..	..	..	1	1	2	3	..	..	1	..	8	1	....	5	3	1	2	1	3	2	..	..	..	1	2	1	2	..	..	..	1
189. Cause of death not specified or ill-defined	9	1	..	..	..	..	..	..	..	1	1	2	3	..	..	1	..	8	1	....	5	3	1	2	1	3	2	..	..	..	1	2	1	2	..	..	..	1
Still-Births.																																						
Not included in totals	27	27	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	16	7	4	27	....	....	27	....	....	4	2	1	1	4	3	2	..	4	3	2	1

CAUSES OF DEATH IN THE DISTRICT OF NIPISSING, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	618	193	26	11	6	7	21	10	22	70	65	34	48	32	24	20	29	380	238	.....	458	72	88	370	186	62	53	45	46	45	56	51	58	56	66	51	36	55
I.—General Diseases.																																						
Group Total	133	11	8	4	2	1	10	3	11	23	20	8	19	9	1	..	3	76	57	....	87	21	25	67	53	13	13	10	8	8	14	11	17	13	14	7	7	11
1. Typhoid fever	25	....	1	..	..	..	1	..	5	6	6	2	3	..	..	..	1	16	9	....	13	7	5	12	11	2	3	2	..	1	1	..	1	4	5	3	3	..
6. Measles	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	2	....	2	....	....	2	....	....	..	..	..	..	1	1	..	..	..	..	..	..
7. Scarlet fever	1	....	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
8. Whooping cough	7	5	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	2	5	....	7	....	....	7	....	....	..	..	..	..	1	..	2	1	1	..	1	..
9. Diphtheria and croup	18	4	3	2	2	..	5	2	..	..	..	..	..	..	..	..	..	14	4	....	18	....	....	18	....	....	2	4	2	1	..	4	2	1	1	1	2
14. Dysentery	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	....	1	....	....	1	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
18. Erysipelas	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	2	....	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	....	2	....	1	1	....	....	2	....	..	..	..	..	..	..	..	..	..	..	..	1
28. Tuberculosis of the lungs	32	....	1	1	..	..	..	..	3	11	5	3	6	..	..	..	..	13	13	....	22	5	5	12	16	1	2	1	..	3	3	1	6	4	1	2	..	3
29. Acute miliary tuberculosis	1	....	..	..	..	..	..	1	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
30. Tuberculous meningitis	3	....	..	..	..	3	..	..	..	....	..	..	..	..	..	..	..	3	....	....	3	....	....	3	....	....	1	1	..	..	..	..	..	..	..	..	..	1
31. Abdominal tuberculosis	2	....	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	2	....	....	2	....	....	2	....	....	..	..	..	1	..	..	..	1	..	..	..	..
34. Tuberculosis of other organs	4	....	..	..	..	..	1	..	1	....	1	..	..	..	..	..	1	1	3	....	3	1	....	3	1	....	1	..	..	..	2	..	..	..	..	1	..	..
40. Cancer and other malignant tumors of the stomach, liver	6	....	..	..	..	..	..	..	..	....	1	2	1	2	..	..	..	4	2	....	3	....	3	....	4	2	..	..	..	..	1	..	2	1	..	..	1	1
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	3	....	..	..	..	..	..	..	..	....	..	..	3	..	..	..	..	1	2	....	1	1	1	1	2	....	1	..	..	..	1	..	..	..	..	..	..	1
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	7	....	..	..	..	..	..	..	1	1	1	..	2	2	..	..	..	1	6	....	1	1	5	1	6	....	..	1	1	1	2	..	1	1	..	..	..	..
47. Acute articular rheumatism	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	3	....	..	..	..	..	..	..	..	..	1	1	1	..	..	..	..	1	2	....	3	1	....	1	1	1	..	..	2	..	..	..	1	..	..	..	..	..	..
50. Diabetes	3	....	..	..	..	..	..	..	..	1	1	..	1	..	..	..	..	2	1	....	....	3	....	....	3	....	..	3	1	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	5	....	..	..	..	..	..	..	..	2	..	1	2	..	..	..	..	..	3	....	5	....	....	5	....	....	..	..	3	..	..	..	..	1	..	1	..	..
56. Alcoholism (acute or chronic)	5	....	..	..	..	..	..	..	..	....	2	..	1	1	..	..	1	5	....	....	1	....	4	1	1	3	..	..	..	1	1	..	1	..	1	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	34	6	3	2	..	1	..	2	1	4	1	..	6	3	2	..	3	20	14	....	27	2	5	21	10	3	3	4	1	4	4	3	1	2	5	2	1	4
60. Encephalitis	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
61. Simple meningitis	8	....	..	1	..	1	..	2	1	1	..	..	1	..	..	..	1	4	4	....	8	....	....	5	1	2	..	1	1	2	1	2	..	..	..	..	..	1
63. Other diseases of the spinal cord	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	5	....	..	..	..	..	..	..	..	....	..	..	3	..	1	..	1	2	3	....	2	1	....	1	1	....	..	..	..	2	1	..	..	1	..	..	..	..
66. Paralysis without specified cause	6	....	..	..	..	..	..	..	..	....	1	1	1	2	1	..	..	5	1	....	1	....	....	1	1	1	1	1	..	..	..	..	1	..	..	1	..	1

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
69. Epilepsy	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..
71. Convulsions of infants	9	5	2	1	..	..	..	..	..	..	..	..	..	..	..	..	1	6	3	..	9	..	..	9	..	..	..	..	..	..	..	..	..	..	..	..	..	..
73. Neuralgia and neuritis	3	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	1	1	..	..	1	1	2	..	..	2	2	..	..	2	..	..	1	1	..	..	1
76. Diseases of the ears	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	1
III.—Diseases of the Circulatory System.																																						
Group Total	32	..	..	..	..	..	..	..	2	3	6	3	5	6	4	1	2	17	15	..	21	2	9	8	21	3	2	3	2	1	4	6	3	..	6	..	5	..
78. Acute endocarditis	5	..	..	..	..	..	..	..	1	1	1	..	1	..	..	..	1	3	2	..	5	..	..	4	1	..	..	..	1	..	1	1	..	..	2	..	..	..
79. Organic diseases of the heart	21	..	..	..	..	..	..	..	1	2	4	2	4	5	2	1	..	10	11	..	14	2	5	3	16	2	1	2	1	1	2	5	3	..	1	..	5	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	4	..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	1	3	1	..	1	..	3	..	3	1	..	1	..	..	1	..	..	..	2	..	..	..
82. Embolism and thrombosis	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..
85. Hæmorrhage; other diseases of the circulatory system	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	51	17	6	..	..	1	2	2	..	2	1	7	3	3	..	..	4	28	23	..	43	2	6	33	12	6	5	6	8	6	3	3	2	..	2	8	4	4
89. Acute bronchitis	5	2	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	3	2	..	4	..	1	4	..	1	1	..	2	1	..	..	..	..	..	..	..	1
90. Chronic bronchitis	2	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	1	1	..	2	..	..	..	1	1	..	..	..	..	1	..	..	..	..	..	..	..
91. Broncho-pneumonia	14	10	2	..	..	..	2	..	..	..	..	..	..	..	..	..	..	4	10	..	14	..	..	11	..	..	2	2	1	2	1	1	..	..	1	2	1	1
92. Pneumonia	21	4	3	..	..	..	..	1	..	2	2	4	2	1	..	..	2	13	8	..	16	1	4	13	7	1	1	3	4	1	1	1	2	..	5	2	1
93. Pleurisy	3	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	2	1	..	2	..	1	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..
96. Asthma	4	..	..	..	..	..	..	..	..	..	1	2	..	1	..	..	..	3	1	..	3	1	..	3	1	..	..	..	..	1	..	1	..	..	..	..	..	1
97. Pulmonary emphysema	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	1	..	..	1	..	..	1	..	..	..	1	..	..	..	1	1	1	..
98. Other diseases of the respiratory system (tuberculosis excepted)	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	1	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	46	22	3	..	..	2	4	..	..	4	5	1	1	2	1	..	1	30	16	..	42	2	2	31	10	2	1	3	1	3	4	6	5	4	5	4	2	5
100. Diseases of the pharynx	2	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	1	..	2	..	..	1	1	..	1	..	..	..	..	..	..	..	..	..	..	1
102. Ulcer of the stomach	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	5	3	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	3	2	..	5	..	..	3	2	..	2	..	..	..	1	..	..	..	2	..	..	..
104. Diarrhœa and enteritis (under 2 years)	19	18	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	13	6	..	19	..	..	19	..	..	1	1	1	..	3	1	3	3	3	..	1	2
105. Diarrhœa and enteritis (2 years and over)	3	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	1	..	1	1	..	1	1	..	..	..	..	..	..	..	2	..	..	..	..	..
108. Appendicitis and typhlitis	7	..	..	..	1	2	..	..	..	2	1	..	..	..	..	..	1	5	2	..	6	..	1	5	1	1	..	..	..	..	..	..	2	..	..	..	..	..
109. Hernias, intestinal obstructions	6	1	..	..	1	..	..	..	..	1	1	..	1	1	..	..	..	1	2	..	3	1	..	3	2	1	..	1	..	..	..	2	..	1	..	..	2
110. Diseases of the intestines	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
117. Simple peritonitis (non-puerperal)	3	..	..	..	..	..	1	..	..	1	1	..	..	..	..	..	..	1	2	..	2	..	1	1	2	..	..	..	..	..	1	..	1	..	..	1	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	7	..	1	..	1	..	..	1	..	..	2	1	..	1	..	..	..	5	2	..	6	..	1	4	3	..	1	..	1	..	..	1	1	1	..	1	..	1
120. Bright's disease	4	..	..	..	..	..	..	1	..	..	2	1	..	..	..	..	..	3	1	..	3	..	1	2	2	..	..	..	1	..	..	..	1	1	..	..	..	1
122. Other diseases of the kidneys and adnexa	3	..	1	..	1	..	..	..	..	..	..	..	..	1	..	..	..	2	1	..	3	..	..	2	1	..	1	..	..	..	..	..	1	..	..	..	..	1
VII.—The Puerperal State.																																						
Group Total	11	..	..	..	..	..	..	..	2	6	2	1	..	..	..	..	..	..	11	..	5	4	2	1	9	1	..	2	..	2	1	1	1	1	..	2	..	
134. Accidents of pregnancy	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..
135. Puerperal hæmorrhage	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..
136. Other accidents of labor	3	..	..	..	..	..	..	..	2	1	..	..	..	..	..	..	..	..	3	..	2	1	..	1	1	1	..	..	..	..	..	..	1	1	..	..	1	..

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CAUSES OF DEATH IN THE COUNTY OF NORFOLK, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	330	51	4	3	1	1	5	2	3	9	15	21	22	46	75	62	10	173	157	.....	234	50	46	97	214	19	27	29	27	28	24	24	28	28	27	35	28	25
I.—General Diseases.																																						
Group Total	87	5	..	1	..	..	3	1	2	5	9	11	13	15	13	6	3	37	50	....	62	11	14	18	63	6	6	7	7	4	4	11	4	11	8	8	12	5
1. Typhoid fever	7	....	..	..	..	..	1	..	1	....	2	2	....	1	..	..	..	4	3	....	5	....	2	2	5	....	..	..	..	..	..	..	..	2	3	..	..	..
6. Measles	1	....	..	..	..	..	1	..	..	....	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
7. Scarlet fever	1	....	..	1	..	..	..	..	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
8. Whooping cough	5	5	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	4	....	5	....	....	5	....	....	..	..	..	..	..	..	..	3	2	..	..	..
10. Influenza	2	....	..	..	..	..	..	..	..	....	..	..	1	....	..	1	..	1	1	....	2	....	....	....	2	....	..	1	..	..	..	..	..	1	..	..	..	..
18. Erysipelas	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	....	1	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	1	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
24. Tetanus	1	....	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	1	....	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	13	....	..	..	..	..	..	..	1	3	3	1	1	1	1	..	2	4	9	....	10	....	3	2	9	2	1	1	2	..	..	4	2	2	..	..	..	..
34. Tuberculosis of other organs	1	....	..	..	..	..	1	..	..	....	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
36. Rickets	1	....	..	..	..	..	..	..	..	....	1	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	3	....	..	..	..	..	..	..	..	....	..	..	2	..	..	1	..	2	1	....	3	....	....	1	2	....	..	1	..	..	1	..	..	..	..	..	..	1
40. Cancer and other malignant tumors of the stomach, liver	15	....	..	..	..	..	..	..	..	....	1	..	3	5	3	2	1	6	9	....	8	4	3	1	13	1	1	1	..	1	1	2	..	1	..	1	6	1
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	2	....	..	..	..	..	..	..	..	....	..	..	1	..	1	..	..	....	2	....	1	1	....	....	2	....	..	..	..	..	..	..	..	..	2	..	..	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	1	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	3	....	..	..	..	..	..	..	..	....	..	..	..	1	2	..	..	....	3	....	1	....	2	....	3	....	1	..	..	..	..	..	..	..	1	..	..	1
45. Cancer and other malignant tumors of other organs and of organs not specified	14	....	..	..	..	..	..	..	1	..	4	1	1	3	1	..	..	6	8	....	9	2	3	1	12	1	..	1	3	1	1	4	..	..	3	..	1	..
46. Other tumors (tumors of the female genital organs excepted)	1	....	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	1	..	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	4	....	..	..	..	..	..	..	..	....	..	..	..	1	3	..	..	1	3	....	2	2	....	....	4	....	..	..	..	..	1	..	..	1	..	..	1	1
50. Diabetes	1	....	..	..	..	..	..	..	..	....	..	1	..	..	..	..	..	1	..	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
53. Leucæmia	1	....	..	..	..	..	..	..	..	....	..	1	..	..	..	..	..	1	..	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
54. Anæmia; chlorosis	7	....	..	..	..	..	..	..	..	....	1	2	..	1	2	1	..	5	2	....	6	....	1	1	5	1	1	..	..	..	..	..	..	..	..	2	4	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	..	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..

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NORFOLK—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
VII.—The Puerperal State.																																						
Group Total	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
137. Puerperal septicæmia	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	3	....	..	..	..	..	1	..	..	....	..	..	1	..	..	1	..	3	....	....	2	....	1	1	2	....	..	..	..	..	1	..	..	1	..	..	1	..
142. Gangrene	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	....	....	1	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
143. Furuncle	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..
144. Acute abscess	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
X.—Malformations.																																						
Group Total	4	4	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	2	....	4	....	....	4	....	....	2	..	..	..	..	..	..	..	..	..	1	1
150. Congenital malformations (still-births not included)	4	4	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	2	....	4	....	....	4	....	....	2	..	..	..	..	..	..	..	..	..	1	1
XI.—Diseases of Early Infancy.																																						
Group Total	25	25	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	17	8	....	25	....	....	25	....	....	1	..	1	2	2	4	5	2	2	3	2	1
151. Congenital debility, icterus, and sclerema	21	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	15	6	....	21	....	....	21	....	....	1	..	..	1	1	4	4	2	2	3	2	1
152. Other diseases peculiar to early infancy	4	4	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	2	....	4	....	....	4	....	....	..	..	1	1	1	..	1	..	..	..	..	..
154. XII.—Old Age.																																						
Group Total	48	....	..	..	..	..	..	..	..	....	..	..	....	..	19	28	..	30	18	....	27	11	7	8	39	1	1	6	3	5	5	4	4	3	4	3	2	8
XIII.—Affections Produced by External Causes.																																						
Group Total	10	....	..	1	1	1	..	..	1	1	..	2	2	..	..	..	1	7	3	....	6	1	3	4	6	....	1	..	2	1	1	..	..	1	1	3	..	..
155. Suicide by poison	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
167. Burns (conflagration excepted)	3	....	..	..	1	..	..	..	..	....	..	..	1	..	..	..	1	2	1	....	2	....	1	1	2	....	..	..	..	2	..	1	..	..	..	..	..	..
168. Absorption of deleterious gases (conflagration excepted)	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	....	1	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
169. Accidental drowning	2	....	..	..	..	1	..	..	..	....	..	1	....	..	..	..	..	2	....	....	1	....	1	1	1	....	..	..	..	..	..	..	..	1	..	1	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	2	....	..	..	..	..	..	..	1	....	..	1	....	..	..	..	..	2	....	....	1	....	1	1	1	....	..	..	..	..	..	..	..	..	..	..	..	..
178. Excessive cold	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
XIV.—Ill-defined Diseases.																																						
Group Total	5	....	..	1	..	..	..	..	..	1	..	2	....	..	..	1	..	2	3	....	4	....	1	2	2	1	..	1	1	1	..	..	..	..	..	..	2	..
189. Cause of death not specified or ill-defined	5	....	..	1	..	..	..	..	..	1	..	2	....	..	..	1	..	2	3	....	4	....	1	2	2	1	..	1	1	1	..	..	..	..	..	..	2	..
Still-Births.																																						
Not included in totals	10	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	4	4	2	10	....	....	10	....	....	3	..	1	1	..	..	2	..	1	..	..	2

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	739	101	15	5	6	1	4	11	15	29	45	38	58	109	131	140	22	400	339	....	479	171	89	260	395	84	75	63	64	70	57	54	49	63	60	57	62	65
I.—General Diseases.																																						
Group Total	155	5	3	2	4	..	..	4	10	19	18	11	19	26	25	5	4	79	76	....	121	22	12	64	70	21	15	15	13	15	12	14	7	10	14	6	16	18
1. Typhoid fever	8	....	..	..	..	..	..	1	4	....	2	..	..	..	1	..	..	6	2	....	7	1	....	5	3	....	..	2	2	2	..	..	..	1	..	1	..
6. Measles	2	....	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	....	2	....	2	....	....	2	....	....	..	2	..	..	..	..	..	..	..	..	..	..
7. Scarlet fever	2	....	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	1	..	..	..	..	..	..	..	1
8. Whooping cough	1	....	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
9. Diphtheria and croup	6	1	2	1	2	..	..	..	..	..	..	..	..	..	..	..	..	....	6	....	6	....	....	6	....	....	..	..	..	..	..	1	..	..	..	..	4	1
10. Influenza	6	....	..	..	..	..	..	..	..	..	1	..	1	1	2	1	..	....	4	....	4	1	1	....	3	3	..	..	..	1	3	1	1	..	..	..	..	..
14. Dysentery	2	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	2	....	....	1	1	....	1	1	....	..	..	..	..	..	..	..	1	1	..	..	..
18. Erysipelas	2	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	..	..	..	..	1	..	..	..
28. Tuberculosis of the lungs	41	....	..	..	..	..	1	4	16	12	3	....	5	..	..	..	..	20	21	....	37	3	1	27	11	3	5	2	5	2	1	7	5	2	2	1	3	6
31. Abdominal tuberculosis	1	....	..	..	..	..	..	1	....	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
34. Tuberculosis of other organs	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	....	....	....	1	....	....	....	1	..	..	..	..	..	..	..	1	..	..	..	..
35. Disseminated tuberculosis	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	5	....	..	..	..	..	..	..	..	....	..	2	....	1	2	..	..	4	1	....	5	....	....	2	2	1	..	1	1	1	1	....	1	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	15	....	..	..	..	..	..	..	..	1	1	..	4	3	4	1	1	9	6	....	10	2	3	3	9	3	3	2	..	1	..	1	..	1	1	1	1	4
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	9	....	..	..	..	..	..	..	..	..	..	2	2	2	3	..	..	5	4	....	9	....	....	2	7	....	2	1	..	1	..	..	..	1	..	1	2	1
42. Cancer and other malignant tumors of the female genital organs	3	....	..	..	..	..	..	..	..	..	..	..	1	1	1	..	..	....	3	....	3	....	....	1	2	....	..	..	..	..	1	1	..	..	..	1	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
44. Cancer and other malignant tumors of the skin	1	....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	14	....	..	..	..	..	..	..	..	....	..	..	3	6	3	1	1	7	7	....	7	3	4	1	9	4	1	..	2	1	..	3	..	1	3	..	1	2
47. Acute articular rheumatism	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
48. Chronic rheumatism and gout	3	....	..	..	..	..	..	..	..	....	..	..	....	1	2	..	..	2	1	....	....	3	....	1	1	1	1	..	..	..	1	..	..	..	..	..	..	1
50. Diabetes	7	....	..	..	..	..	..	..	..	....	..	1	3	3	..	..	..	4	3	....	4	2	1	1	5	1	1	2	..	..	..	1	..	1	..	..	2	..
51. Exophthalmic goitre	3	....	..	..	..	..	..	..	1	1	..	..	..	..	1	..	..	1	2	....	2	1	....	2	1	....	..	..	..	1	..	..	..	1	..	..	..	1
52. Addison's disease	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
54. Anæmia, chlorosis	15	....	..	..	..	..	..	..	..	2	1	4	2	4	..	2	..	8	7	....	10	3	2	1	10	4	2	2	..	..	..	4	1	..	3	1	1	1
55. Other general diseases	2	1	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	..	..	..	..	1	..	1	..
56. Alcoholism (acute or chronic)	2	....	..	..	..	..	..	..	..	....	..	1	1	..	..	..	..	2	....	....	2	....	....	....	2	....	..	..	..	..	..	..	..	..	..	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	89	11	2	1	..	..	2	1	1	1	2	4	11	24	13	9	7	40	49	....	60	15	14	29	51	9	12	9	11	4	5	7	6	8	3	7	10	7
61. Simple meningitis	6	....	1	..	..	..	..	..	1	....	..	..	2	2	..	..	..	2	4	....	4	2	....	3	3	....	..	1	..	1	..	1	..	1	....	2	..
63. Other diseases of the spinal cord	5	2	..	..	..	..	1	..	..	....	..	..	....	1	..	..	1	2	2	....	5	....	....	4	1	....	1	..	1	..	..	..	1	..	1	1	..	..
64. Cerebral hæmorrhage, apoplexy	36	....	..	..	..	..	..	..	..	....	..	2	5	17	5	5	2	18	18	....	21	9	6	4	27	5	5	3	6	1	2	2	2	3	..	2	7	3
65. Softening of the brain	4	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	2	3	1	....	3	....	1	....	2	2	2	..	..	..	..	..	..	..	1	1	..	..
66. Paralysis without specified cause	15	....	..	..	..	..	..	..	..	....	..	1	2	1	7	4	..	7	8	....	9	3	3	1	13	1	..	1	1	1	2	2	2	2	..	2	..	2
67. General paralysis of the insane	2	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	1	....	2	....	1	....	1	....	2	....	..	1	..	..	1	..	..	..	..	..	..	..
68. Other forms of mental alienation	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	....	1	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
69. Epilepsy	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	....	1	..	..	1	..	..	..	..	..	..	..	..	..
71. Convulsions of infants	11	9	1	1	..	..	..	..	..	....	..	..	....	..	..	..	..	3	8	....	11	....	....	11	....	....	2	1	1	..	..	2	1	..	1	1	1	1
72. Chorea	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
73. Neuralgia and neuritis	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	....	2	....	1	....	1	1	1	....	1	1	..	..	..	..	..	..	..	..	..	..
74. Other diseases of the nervous system	4	....	..	..	..	..	..	..	..	....	1	1	....	1	..	..	1	2	2	....	2	1	1	3	1	....	..	1	..	1	..	..	..	2	..	..	..	..
76. Diseases of the ears	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	100	....	..	..	..	..	..	1	..	1	3	7	10	29	27	21	1	54	46	....	58	32	10	11	76	13	9	7	3	13	14	4	11	10	3	6	6	14
78. Acute endocarditis	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
79. Organic diseases of the heart	67	....	..	..	..	..	..	1	..	....	3	5	6	22	22	7	1	33	34	....	37	22	8	10	51	6	5	6	2	10	11	4	10	7	1	3	3	5
81. Diseases of the arteries, atheroma, aneurysm, etc.	30	....	..	..	..	..	..	..	..	....	..	2	4	6	5	13	..	20	10	....	18	10	2	1	22	7	3	1	1	3	3	..	1	3	2	3	3	7
83. Diseases of the veins, varices, hæmorrhoids, phlebitis, etc.)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
85. Hæmorrhage; other diseases of the circulatory system	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
IV.—Diseases of the Respiratory System.																																						
Group Total	49	9	3	..	1	1	..	..	2	1	2	4	1	3	11	10	1	28	21	....	37	7	5	20	23	6	5	12	11	3	4	5	..	2	..	4	2	1
89. Acute bronchitis	2	1	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	1	..	..	..	..	..	..	1	..	..
90. Chronic bronchitis	5	....	..	..	..	..	..	..	..	....	..	..	....	..	1	2	..	1	2	....	2	1	....	....	3	....	1	1	..	..	..	1	..	..	..	..	..	..
91. Broncho-pneumonia	3	1	..	..	1	..	..	..	..	....	..	..	....	..	..	1	..	1	2	....	3	....	....	2	1	....	1	2	..	..	..	..	..	..	..	..	..	..
92. Pneumonia	33	7	2	..	..	1	..	..	2	1	1	3	1	1	7	6	1	19	14	....	25	4	4	14	13	6	3	8	10	2	2	3	..	1	..	2	1	1
93. Pleurisy	6	....	..	..	..	..	..	..	..	....	1	1	....	1	3	..	..	4	2	....	3	2	1	2	4	....	..	..	1	..	2	1	..	1	..	1	..	..
96. Asthma	2	....	..	..	..	..	..	..	..	....	..	..	....	1	..	1	..	2	....	....	2	....	....	....	2	....	..	..	..	1	..	..	..	..	..	..	1	..
V.—Diseases of the Digestive System.																																						
Group Total	49	15	4	1	..	..	1	1	1	2	3	3	5	5	5	2	1	27	22	....	36	8	5	28	18	3	1	1	1	3	3	2	4	7	14	6	5	2
100. Diseases of the pharynx	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
102. Ulcer of the stomach	2	....	..	..	..	..	..	..	..	....	..	..	1	..	1	..	..	2	....	....	1	....	1	1	1	....	..	..	..	..	..	1	1	..	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	5	2	..	..	..	..	1	..	..	....	..	1	1	..	..	..	..	2	3	....	4	1	....	3	1	1	..	..	..	..	..	..	1	..	1	1	1	..

| | | |

NORTHUMBERLAND AND DURHAM—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
XIII.—Affections Produced by External Causes.																																						
Group Total	51	2	2	1	..	..	1	3	..	5	8	3	5	8	4	5	4	43	8	....	30	13	8	19	23	9	7	3	2	9	5	4	2	3	3	8	2	3
157. Suicide by hanging or strangulation	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
158. Suicide by drowning	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
163. Other suicides	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	1	..	..
165. Other acute poisonings	2	....	1	..	..	..	1	..	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	..	..	..	..	1	..	..	..	1	..	..
167. Burns (conflagration excepted)	3	....	1	..	..	..	..	..	..	1	1	..	....	..	..	..	..	2	1	....	2	....	1	1	2	....	3	..	..	..	..	..	..	..	..	..	..	..
169. Accidental drowning	7	1	..	1	..	..	..	1	..	1	1	..	....	..	..	..	2	7	....	....	4	1	2	3	2	2	..	..	1	1	1	1	..	1	1	1	..	..
170. Traumatism by firearms	6	....	..	..	..	1	1	..	....	1	1	2	....	..	..	..	..	5	1	....	5	1	....	4	1	1	1	1	..	2	1	....	..	..	..	..	..	1
172. Traumatism by fall	3	....	..	..	..	..	..	..	..	1	..	..	....	..	1	1	..	3	....	....	2	1	....	....	2	1	..	..	..	1	..	1	..	1	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.	10	....	..	..	..	..	..	..	..	....	2	..	2	1	..	1	1	10	....	....	3	4	3	1	7	2	1	1	..	2	..	..	1	..	2	3	..	..
178. Excessive cold	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..	1
181. Electricity (lightning excepted)	2	....	..	..	..	..	..	..	..	....	1	1	....	..	..	..	..	2	....	....	1	1	....	1	1	....	1	..	..	..	..	..	..	..	..	..	1	..
185. Fractures (causes not specified)	10	....	..	..	..	..	..	..	..	....	1	..	1	1	3	3	1	5	5	....	5	4	1	3	5	2	..	1	..	2	1	1	1	1	..	1	1	1
186. Other external violence	4	1	..	..	..	..	..	..	..	....	1	..	....	2	..	..	..	4	....	....	3	1	....	2	2	....	1	..	..	..	1	..	..	..	..	2	..	..
XIV.—Ill-defined Diseases.																																						
Group Total	9	....	1	..	1	..	..	..	..	....	..	3	2	2	..	..	..	5	4	....	7	....	2	4	4	1	2	..	2	1	..	1	..	..	1	..	2	..
188. Sudden death	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..
189. Cause of death not specified or ill-defined	8	....	1	..	1	..	..	..	..	....	..	2	2	2	..	..	..	4	4	....	6	....	2	3	4	1	2	..	2	1	..	1	..	..	1	..	1	..
Still-Births.																																						
Not included in totals	59	59	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	34	24	1	59	....	....	59	....	....	7	6	3	6	3	4	4	5	11	4	3	3

CAUSES OF DEATH IN THE COUNTY OF ONTARIO, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	494	97	16	2	3	4	5	2	11	29	32	20	36	57	95	83	2	290	204	.....	325	133	36	193	280	21	43	38	46	41	40	41	47	45	28	46	36	43
I.—General Diseases.																																					
Group Total	105	6	2	1	2	1	2	1	2	10	13	6	15	20	15	8	1	57	48	....	75	25	5	31	72	2	7	8	9	9	8	6	12	14	2	13	5	12
1. Typhoid fever	9	....	..	1	..	..	..	1	..	....	2	1	3	..	1	..	..	5	4	....	7	2	....	3	6	....	..	..	1	..	3	..	..	2	..	2	..	1
6. Measles	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
7. Scarlet fever	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
8. Whooping cough	9	5	2	..	1	..	..	..	..	1	..	..	....	..	..	..	..	5	4	....	8	1	....	8	1	....	..	..	..	..	..	2	3	2	1	..	1	..
9. Diphtheria and croup	2	....	..	..	..	..	2	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	1	..	..	..	..	1	..	..	..	..	..
10. Influenza	9	....	..	..	..	..	..	1	1	....	..	..	....	..	3	4	..	6	3	....	6	3	....	2	7	....	1	2	2	1	..	..	..	1	..	1	1	..
18. Erysipelas	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	2	....	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	....	2	....	2	....	....	1	1	....	..	..	..	1	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	21	....	..	..	..	..	..	1	..	5	6	4	1	2	1	..	1	9	12	....	18	2	1	8	12	1	2	..	1	1	1	4	5	..	1	2	1	3
30. Tuberculous meningitis	2	....	..	..	..	1	..	..	..	1	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	1	..	..	..	..	..	1	..	..
39. Cancer and other malignant tumors of the buccal cavity	5	....	..	..	..	..	..	..	..	....	..	..	2	1	1	1	..	3	2	....	4	3	....	....	5	....	..	..	..	1	..	..	..	1	..	3	..	..
40. Cancer and other malignant tumors of the stomach, liver	9	....	..	..	..	..	..	..	..	....	1	1	....	5	2	..	..	5	4	....	7	1	1	....	9	....	..	1	..	2	3	..	..	1	..	1	..	1
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	8	....	..	..	..	..	..	..	..	....	1	..	1	1	3	2	..	4	4	....	4	3	1	....	8	....	1	1	..	..	..	..	1	2	..	2	..	1
42. Cancer and other malignant tumors of the female genital organs	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	....	2	....	1	1	....	....	2	....	..	..	..	..	..	..	1	1	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	7	....	..	..	..	..	..	..	..	....	..	..	3	2	2	..	..	4	3	....	4	2	1	....	6	1	2	1	..	..	..	..	..	2	..	..	1	1
48. Chronic rheumatism and gout	3	....	..	..	..	..	..	..	..	....	1	..	....	..	1	1	..	2	1	....	1	2	....	....	3	....	..	..	..	..	..	..	..	1	..	..	..	2
50. Diabetes	3	....	..	..	..	..	..	..	..	....	1	..	1	1	..	..	..	2	1	....	3	....	....	....	3	....	1	..	1	..	..	..	..	..	..	..	1	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
53. Leucæmia	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	8	....	..	..	..	..	..	..	..	....	1	..	2	5	..	..	..	6	2	....	4	3	1	1	7	....	..	..	3	1	1	..	..	1	..	1	..	1
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	47	6	4	....	1	1	1	1	1	3	1	4	5	12	7	..	24	23	....	28	12	7	19	26	2	4	6	6	3	4	6	2	4	3	1	5	3
61. Simple meningitis	5	3	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	2	3	....	5	....	....	5	....	....	..	2	..	1	1	1	..	..	..	..	..	..
63. Other diseases of the spinal cord	2	....	1	..	..	1	..	..	..	....	..	..	..	..	..	..	..	2	....	....	2	....	....	2	....	....	..	1	..	..	..	..	..	..	..	1	..	..
64. Cerebral hæmorrhage, apoplexy	14	....	..	..	..	..	..	..	..	....	..	1	1	3	4	5	..	5	9	....	....	6	4	....	12	2	1	..	3	..	1	2	1	2	3	..	1	..
66. Paralysis without specified cause	9	....	..	..	..	..	..	..	..	....	2	..	....	1	4	2	..	4	5	....	4	4	1	1	8	....	1	1	..	1	..	1	..	..	1	2	1	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
69. Epilepsy	2	....	..	..	..	..	..	..	1	....	..	..	....	..	1	..	..	1	1	....	1	1	....	1	1	....	..	..	..	..	..	1	1	..	..	..	..	..
70. Convulsions (non-puerperal)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	....	....	..	..	..	..	..	..	..	..	..	..	..	..
71. Convulsions of infants	6	3	3	..	..	..	..	..	..	....	..	..	....	..	..	..	..	5	1	....	6	....	....	6	....	....	..	..	..	..	..	..	..	..	..	..	..	1
72. Chorea	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	....	....	....	2	1	..	..	1	..	..	..	..	..	1	1
73. Neuralgia and neuritis	2	....	..	..	..	..	..	..	..	....	..	..	....	..	2	..	..	2	....	....	2	....	....	....	2	....	..	..	1	1	..	..	..	..	..	..	..	..
74. Other diseases of the nervous system	5	....	..	..	..	..	..	..	..	....	1	..	3	1	..	..	..	1	4	....	2	1	2	2	3	....	..	1	1	..	1	1	..	1	..	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	**58**	....	..	..	..	..	..	..	..	3	..	9	4	9	22	11	..	32	26	....	32	18	8	10	45	3	1	4	7	6	2	2	7	7	3	5	6	8
77. Pericarditis	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
78. Acute endocarditis	2	....	..	..	..	..	..	..	..	1	..	..	....	..	1	..	..	....	2	....	1	1	....	1	1	....	..	..	1	..	..	..	..	..	..	1	..	..
79. Organic diseases of the heart	35	....	..	..	..	..	..	..	..	2	..	6	3	6	11	7	..	21	14	....	19	10	6	6	26	3	..	2	5	5	1	1	7	4	1	1	5	3
80. Angina pectoris	2	....	..	..	..	..	..	..	..	....	..	..	....	..	1	1	..	1	1	....	....	2	....	..	2	....	..	..	1	..	..	..	..	..	..	1	..	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	16	....	..	..	..	..	..	..	..	....	..	2	1	2	8	3	..	10	6	....	11	3	2	2	14	....	1	1	1	1	1	1	..	1	2	2	1	4
85. Hæmorrhage; other diseases of the circulatory system	2	....	..	..	..	..	..	..	..	....	..	1	....	..	1	..	..	....	2	....	1	1	....	1	1	....	..	..	..	..	..	..	..	1	..	..	..	1
IV.—Diseases of the Respiratory System.																																						
Group Total	**50**	14	5	1	..	1	..	..	1	2	3	2	2	6	12	1	..	26	24	....	39	9	2	25	23	2	4	7	4	8	4	6	2	3	3	3	3	3
89. Acute bronchitis	10	7	1	..	..	1	..	..	..	....	..	..	....	..	1	..	..	7	3	....	9	1	....	9	1	....	1	..	..	1	1	2	1	..	..	..	2	2
90. Chronic bronchitis	4	....	..	..	..	..	..	..	..	....	..	..	....	..	1	3	..	2	2	....	2	2	....	....	3	1	..	1	..	1	..	..	..	1	..	1	..	..
91. Broncho-pneumonia	5	2	2	..	..	..	..	..	..	....	..	..	....	..	..	1	..	3	2	....	4	....	1	4	1	....	..	1	1	..	1	..	..	1	..	1	..	..
92. Pneumonia	21	4	2	1	..	..	..	..	1	2	1	1	1	4	4	..	..	10	11	....	16	5	....	10	11	....	1	3	2	5	2	3	1	2	1	..	..	1
93. Pleurisy	2	....	..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	1	1	....	1	1	....	....	2	....	..	1	..	..	..	..	..	..	..	1	..	..
94. Pulmonary congestion, pulmonary apoplexy	3	1	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	1	2	....	3	....	....	2	1	....	..	..	..	..	..	..	..	..	1	..	..	..
96. Asthma	5	....	..	..	..	..	..	..	..	....	1	1	....	..	3	..	..	2	3	....	4	....	1	....	4	1	2	1	1	1	..	..	..	..	..	1	1	..
V.—Diseases of the Digestive System.																																						
Group Total	**42**	14	3	..	1	..	..	..	1	1	5	..	4	5	6	1	..	26	16	....	34	6	2	25	15	2	6	1	3	1	6	3	5	5	4	6	1	1
100. Diseases of the pharynx	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
101. Diseases of the œsophagus	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	....	....	..	..	..	..	..	..	..	..	..	..	1	..
102. Ulcer of the stomach	2	....	..	..	..	..	..	..	..	1	..	..	....	..	1	..	..	....	2	....	1	1	....	1	1	....	..	..	..	..	..	..	..	..	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	4	3	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	2	2	....	4	....	....	3	1	....	..	..	..	..	..	..	1	1	..	..	..	..
104. Diarrhœa and enteritis (under 2 years)	13	10	3	..	..	..	..	..	..	....	..	..	....	..	..	..	..	10	3	....	13	....	....	13	....	....	3	..	1	1	3	..	1	1	2	1	..	..
105. Diarrhœa and enteritis (2 years and over)	5	....	..	..	1	..	..	..	..	....	..	..	1	2	..	1	..	2	3	....	2	2	1	2	3	....	..	1	..	..	1	1	..	..	..	1	..	..
108. Appendicitis and typhlitis	3	....	..	..	..	..	..	..	1	....	1	..	1	..	..	..	..	3	....	....	2	....	1	1	....	....	..	1	..	..	1	1	1	..	..	1	..	..
109. Hernias, intestinal obstructions	5	....	..	..	..	..	..	..	..	....	3	..	....	..	2	..	..	1	4	....	4	1	....	1	4	....	1	..	..	..	..	..	1	..	..	..	..	..
113. Cirrhosis of the liver	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	1	1	1	..	..	..
115. Other diseases of the liver	4	....	..	..	..	..	..	..	..	....	..	..	1	2	1	..	..	3	1	....	3	1	....	1	2	1	..	..	..	..	..	1	1	1	..	..	..	..
117. Simple peritonitis (non-puerperal)	3	1	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	2	1	....	3	....	....	2	1	....	..	..	..	..	..	..	1	..	..	1	..	1
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	**25**	....	..	..	..	..	..	..	1	1	2	..	4	10	2	5	..	18	7	....	12	9	4	2	21	2	3	1	3	5	1	2	2	3	1	1	1	2
119. Acute nephritis	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
120. Bright's disease	16	....	..	..	..	..	..	..	1	....	1	..	4	6	1	3	..	12	4	....	6	7	3	1	13	2	1	..	2	2	..	1	2	3	1	1	1	2
123. Calculi of the urinary passages	4	....	..	..	..	..	..	..	..	....	..	..	....	3	1	..	..	2	2	....	2	1	1	1	3	....	1	..	..	1	1	..	..	..	..	..	..	..
126. Diseases of the prostate	3	....	..	..	..	..	..	..	..	....	..	..	....	1	..	2	..	3	....	....	2	1	....	....	3	....	1	1	1	..	..	..	..	..	..	..	..	..
131. Cysts and other tumors of the ovary	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..

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CAUSES OF DEATH IN THE COUNTY OF OXFORD, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	582	78	7	4	3	2	7	13	12	31	36	36	54	81	120	93	5	303	279	.....	384	147	51	185	356	41	54	56	60	48	47	55	40	45	32	50	38	57
I.—General Diseases.																																						
Group Total	142	4	1	1	..	..	2	5	4	13	17	13	21	24	26	11	..	77	65	....	105	29	8	33	101	8	10	14	20	14	12	11	8	12	6	11	9	15
1. Typhoid fever	5	....	..	..	..	..	..	..	..	1	1	..	2	..	1	..	..	4	1	....	5	....	....	1	4	....	..	..	1	1	..	..	..	..	..	1	1	1
7. Scarlet fever	4	....	..	1	..	..	..	..	1	1	1	..	..	..	..	..	..	3	1	....	4	....	....	3	1	....	..	1	3	..	..	..	..	..	..	..	..	..
8. Whooping cough	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	....	1	1	....	2	....	....	..	..	..	..	..	..	1	..	..	..	..	1
10. Influenza	7	....	..	..	..	..	..	..	..	1	1	3	1	..	..	..	..	4	3	....	5	2	....	1	4	2	3	1	..	1	1	..	..	..	..	..	..	1
14. Dysentery	1	....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	....	1	....	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	7	1	..	..	..	..	..	..	..	1	..	..	1	3	1	..	..	5	2	....	5	1	1	1	6	....	..	..	..	..	1	2	3	1	..	..	..	..
28. Tuberculosis of the lungs	31	1	..	..	..	..	1	2	5	9	3	5	4	1	..	..	..	13	18	....	24	6	1	11	18	2	1	3	4	5	1	1	3	2	2	3	3	3
30. Tuberculous meningitis	1	....	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
31. Abdominal tuberculosis	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
32. Pott's disease	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
34. Tuberculosis of other organs	2	....	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	1	1	....	2	....	....	1	1	....	..	..	1	..	..	1	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	5	....	..	..	..	..	..	..	..	..	..	1	....	1	2	1	..	5	....	....	3	1	1	....	4	1	..	1	1	1	..	1	..	..	..	1	..
40. Cancer and other malignant tumors of the stomach, liver	12	....	..	..	..	..	..	..	..	..	..	2	3	6	1	..	..	7	5	....	8	3	1	1	10	1	..	..	2	..	2	1	2	..	4	..	..	1
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	5	....	..	..	..	..	..	..	..	..	..	2	..	1	2	..	..	3	2	....	3	2	....	....	4	1	..	..	2	1	..	..	..	1	..	1	..	..
42. Cancer and other malignant tumors of the female genital organs	6	....	..	..	..	..	..	..	..	....	1	2	2	1	..	..	..	....	6	....	6	....	....	....	6	....	1	..	..	..	..	1	..	2	..	1	1	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	10	....	..	..	..	..	..	..	..	....	1	1	1	3	3	1	..	5	5	....	7	2	1	....	10	....	..	1	1	2	..	..	..	1	..	..	3	2
46. Other tumors (tumors of the female genital organs excepted)	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
47. Acute articular rheumatism	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
48. Chronic rheumatism and gout	7	....	..	..	..	..	..	..	..	....	1	..	1	2	3	..	..	4	3	....	3	3	1	....	7	....	1	..	2	..	1	2	..	..	..	..	..	1
50. Diabetes	10	....	..	..	..	..	1	..	..	3	..	1	2	1	1	1	..	5	5	....	9	1	....	3	7	....	1	1	1	1	1	..	..	2	..	2	..	1
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1
53. Leucæmia	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	17	....	..	..	..	..	..	1	....	1	3	2	3	3	4	..	..	9	8	....	9	6	2	2	15	....	2	4	2	..	4	1	1	1	..	..	..	2
56. Alcoholism (acute or chronic)	3	....	..	..	..	..	..	..	..	1	1	1	....	..	..	..	..	3	....	....	3	....	....	2	1	....	..	1	..	..	..	..	..	1	..	1	..	..

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OXFORD—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	35	....	..	..	..	..	..	1	..	....	1	3	7	12	7	4	..	21	14	....	17	11	7	3	31	1	6	2	1	5	2	7	2	2	3	1	..	4
119. Acute nephritis	2	..	..	..	..	..	..	1	..	....	..	..	1	..	..	..	..	1	1	....	2	..	....	2	..	....	..	1	..	..	..	..	..	..	..	..	..	1
120. Bright's disease	25	....	..	..	..	..	..	..	..	....	1	3	6	9	3	3	..	13	12	....	13	6	6	1	23	1	3	1	1	5	1	7	..	1	3	1	..	2
123. Calculi of the urinary passages	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
124. Diseases of the bladder	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
126. Diseases of the prostate	6	....	..	..	..	..	..	..	..	....	..	..	....	2	4	..	..	6	....	....	2	3	1	....	6	....	2	..	..	..	1	..	2	..	..	..	..	..
VII.—The Puerperal State.																																						
Group Total	5	....	..	..	..	..	..	..	1	3	1	..	....	..	..	..	..	....	5	....	3	1	1	1	3	1	..	1	1	1	..	..	1	..	..	..	1	..
136. Other accidents of labor	3	....	..	..	..	..	..	..	..	2	1	..	....	..	..	..	..	....	3	....	2	....	1	....	2	1	..	1	..	1	..	..	..	..	..	1	..	..
137. Puerperal septicæmia	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
138. Puerperal albuminuria and convulsions	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	4	2	..	..	..	..	..	..	..	....	..	..	1	..	..	1	..	3	1	....	2	....	2	3	1	....	..	..	1	1	..	1	..	1	..	..	..	..
142. Gangrene	2	....	..	..	..	..	..	..	..	....	..	..	1	..	..	1	..	1	1	....	....	....	2	1	1	....	..	..	1	1	..	..	..	..	..	..	..	..
145. Other diseases of the skin and adnexa	2	2	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	..	..	..	..	..	1	..	1	..	..	..	..
IX.—Diseases of the Bones and of the Organs of Locomotion.																																						
Group Total	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	....	....	1	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
146. Diseases of the bones (tuberculosis excepted)	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	....	....	1	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
X.—Malformations.																																						
Group Total	4	4	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	1	....	4	....	....	4	....	....	..	..	..	..	2	1	..	..	..	1	....	..
150. Congenital malformations (still-births not included)	4	4	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	1	....	4	....	....	4	....	....	..	..	..	..	2	1	..	..	..	1	....	..
XI.—Diseases of Early Infancy.																																						
Group Total	45	45	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	22	23	....	45	....	....	45	....	....	..	6	3	3	5	3	5	3	7	7	..	3
151. Congenital debility, icterus, and sclerema	45	45	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	22	23	....	45	....	....	45	....	....	..	6	3	3	5	3	5	3	7	7	..	3
154. XII.—Old Age.																																						
Group Total	81	....	..	..	..	..	..	..	..	....	..	..	....	..	29	31	1	41	40	....	32	40	9	10	64	7	9	17	9	8	2	6	5	6	3	2	2	12

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CAUSES OF DEATH IN THE DISTRICT OF PARRY SOUND, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	272	81	9	1	3	2	13	8	9	22	20	19	14	22	23	22	4	152	119	1	194	56	22	154	90	28	22	26	19	27	18	26	20	23	21	27	24	19
I.—General Diseases.																																						
Group Total	51	3	4	..	3	1	4	3	3	7	4	6	4	3	4	2	..	21	30	....	39	8	4	27	19	5	4	6	4	5	6	5	4	1	3	5	3	5
1. Typhoid fever	9	....	..	..	..	..	..	2	1	1	1	2	2	..	..	..	..	7	2	....	6	3	....	4	3	2	1	1	1	..	2	..	2	..	1	1	..	..
7. Scarlet fever	3	....	1	..	2	..	..	..	..	..	..	..	..	..	..	..	..	2	1	....	3	....	....	3	....	....	1	..	..	..	..	1	..	..	..	..	..	..	1
8. Whooping cough	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..	..
9. Diphtheria and croup	3	1	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	2	1	....	3	....	....	3	....	....	..	1	..	..	..	..	..	..	..	1	1	..
10. Influenza	1	1	..	..	..	..	..	..	..	..	..	1	1	..	1	..	..	1	3	....	3	....	1	1	3	....	..	..	1	2	..	..	..	..	..	..	..	..	1
18. Erysipelas	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	10	....	1	..	..	..	1	1	1	5	1	..	..	..	..	..	..	3	7	....	8	2	....	7	2	1	1	1	1	..	..	2	..	..	1	1	2	1
30. Tuberculous meningitis	1	....	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..	..
35. Disseminated tuberculosis	1	....	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..	..
36. Rickets	1	....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..	1
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	..	..	1	....	..	..	..	..	....	1	....	....	....	1	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	6	....	..	..	..	..	..	..	..	..	1	2	....	1	2	..	..	4	2	....	4	1	1	1	3	2	..	1	..	..	1	..	1	1	1	..	..	1
45. Cancer and other malignant tumors of other organs and of organs not specified	3	....	..	..	..	..	..	..	..	..	..	..	1	1	1	..	..	....	3	....	2	1	....	....	3	....	....	..	..	..	1	1	..	..	1	..	..	..
47. Acute articular rheumatism	1	....	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..	..
50. Diabetes	3	....	..	..	..	..	1	..	1	....	..	..	..	..	..	1	..	1	....	....	2	....	1	2	1	....	..	..	..	1	1	..	..	..	..	..	1	..	..
54. Anæmia, chlorosis	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	....	2	....	2	....	....	1	1	....	..	1	..	1	..	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	13	1	1	1	..	..	..	1	1	1	2	2	....	..	2	1	..	7	6	....	8	4	1	7	5	1	..	2	1	2	1	2	1	..	1	2	..	1
61. Simple meningitis	3	1	1	..	..	..	..	..	1	....	..	..	....	..	..	..	..	2	1	....	3	....	....	3	....	....	..	1	1	..	..	..	..	..	..	1	..	..
64. Cerebral hæmorrhage, apoplexy	4	....	..	..	..	..	..	..	..	..	1	1	....	..	1	1	..	3	1	....	1	2	1	....	3	1	..	..	..	..	..	2	..	..	1	..	..	1
66. Paralysis without specified cause	1	....	..	..	..	..	..	..	..	..	..	1	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
69. Epilepsy	2	....	..	..	..	..	..	1	..	..	..	1	....	..	..	..	..	....	2	....	1	1	....	1	1	....	..	1	..	..	1	..	..	..	..	..	..	..
71. Convulsions of infants	1	....	..	1	..	..	..	..	..	..	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..	..
74. Other diseases of the nervous system	1	....	..	..	..	..	..	..	..	..	1	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..	..
76. Diseases of the ears	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..	..

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PARRY SOUND—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
XI.—Diseases of Early Infancy.																																						
Group Total	46	46	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	18	27	1	46	....	....	46	....	....	3	5	4	1	4	5	2	5	5	4	6	2
151. Congenital debility, icterus, and sclerema	44	44	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	18	25	1	44	....	....	44	....	....	3	5	2	1	4	5	2	5	5	4	6	2
152. Other diseases peculiar to early infancy	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
153. Lack of care	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
154. XII.—Old Age.																																						
Group Total	25	....	..	..	..	..	..	..	..	....	..	..	....	..	9	16	..	15	10	....	6	15	4	1	21	3	4	2	1	5	1	..	..	2	..	3	4	3
XIII.—Affections Produced by External Causes.																																						
Group Total	39	1	..	..	..	1	4	3	3	9	6	2	5	2	..	..	3	36	3	....	21	12	6	21	12	6	3	1	3	2	1	6	5	3	1	4	4	6
158. Suicide by drowning	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
160. Suicide by cutting or piercing instruments	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
163. Other suicides	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
167. Burns (conflagration excepted)	3	1	..	..	..	..	1	..	..	....	..	..	1	..	..	..	..	2	1	....	3	....	....	2	1	....	..	1	..	..	..	..	..	..	1	1	..
169. Accidental drowning	15	....	..	..	..	1	2	2	2	5	1	1	....	1	..	..	..	15	....	....	7	7	1	12	2	1	..	..	..	1	1	4	2	3	1	..	..	3
172. Traumatism by fall	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	7	....	..	..	..	..	1	..	1	1	3	..	1	..	..	..	..	6	1	....	7	....	....	3	4	....	1	..	2	..	..	..	1	..	..	2	1	..
178. Excessive cold	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..	1
185. Fractures (causes not specified)	4	....	..	..	..	..	..	..	..	1	..	1	2	..	..	..	..	4	....	....	1	2	1	....	3	1	..	..	..	..	..	2	1	..	..	1	..	..
186. Other external violence	5	....	..	..	..	..	..	..	..	....	2	..	....	1	..	..	2	4	1	....	1	1	3	1	1	3	1	..	1	..	..	..	..	..	..	1	2
XIV.—Ill-Defined Diseases.																																						
Group Total	17	1	..	..	..	..	3	..	2	2	1	2	1	5	..	..	..	12	5	....	12	4	1	8	5	4	1	3	..	1	..	1	1	3	2	2	3	..
188. Sudden death	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	..	..	1	..
189 Cause of death not specified or ill-defined	16	1	..	..	..	..	3	..	2	2	1	1	1	5	..	..	..	11	5	....	11	4	1	8	5	3	1	3	..	1	..	1	1	3	2	2	2	..
Still-Births.																																						
Not included in totals	25	15	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	11	10	4	25	....	....	25	....	....	1	3	5	..	5	1	..	3	1	2	2	2

CAUSES OF DEATH IN THE COUNTY OF PEEL, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	230	25	7	1	3	2	2	5	6	14	9	23	14	33	48	37	1	125	105	.....	148	48	34	89	130	11	22	18	22	22	22	16	16	21	15	18	10	19
I.—General Diseases.																																					
Group Total	55	3	3	..	2	1	1	2	3	5	1	9	4	10	6	5	..	25	30	....	39	6	10	25	29	1	5	3	3	8	7	4	3	7	3	2	5	5
1. Typhoid fever	2	....	..	..	..	..	..	1	..	....	..	1	....	..	..	..	..	....	2	....	2	....	....	1	1	....	..	..	..	1	..	..	..	..	..	..	1	..
7. Scarlet fever	1	....	..	..	..	1	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
8. Whooping cough	4	1	3	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	2	....	4	....	....	4	....	....	..	..	..	..	..	..	1	..	1	..	..	..
9. Diphtheria and croup	4	1	..	..	1	..	1	1	..	....	..	..	....	..	..	..	..	....	4	....	4	....	....	4	....	....	2	..	..	..	1	..	..	..	..	..	..	1
10. Influenza	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	2	....	....	....	1	1	....	2	....	..	..	..	2	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	10	....	..	..	1	..	..	..	1	3	..	2	....	2	1	..	..	8	2	....	8	2	....	7	3	....	..	2	2	..	..	..	1	..	..	1	1
29. Acute miliary tuberculosis	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
31. Abdominal tuberculosis	2	1	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	1	....	1	....	1	....	2	....	1	..	..	..	..	..	..	1	..	..	..	..
33. White swelling	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	2	....	..	..	..	..	..	..	..	....	..	..	....	..	2	..	..	....	2	....	1	1	....	....	2	....	..	..	..	..	..	..	..	..	..	..	..	2
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..
45. Cancer and other malignant tumors of other organs and of organs not specified	8	....	..	..	..	..	..	..	..	....	..	1	....	4	1	2	..	3	5	....	4	2	2	....	8	....	1	..	..	1	..	2	..	2	1	..	..	1
47. Acute articular rheumatism	2	....	..	..	..	..	..	..	1	....	..	..	....	1	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	1	1	..	..	..	..	..	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
50. Diabetes	4	....	..	..	..	..	..	..	1	1	..	2	....	..	..	..	..	1	3	....	2	1	1	2	1	1	1	..	..	..	1	..	1	1	..	..	..	..
52. Addison's disease	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
54. Anæmia, chlorosis	8	....	..	..	..	..	..	..	..	....	1	2	....	1	2	2	..	2	6	....	4	1	3	1	7	....	..	1	1	1	..	1	..	..	1	1	2	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	19	....	1	..	1	..	..	1	..	....	..	3	2	2	2	5	4	8	11	....	12	6	1	4	15	...	1	3	1	1	..	1	2	2	1	..	5	2
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..
63. Other diseases of the spinal cord	2	....	..	..	..	..	..	1	..	....	..	1	....	..	1	..	..	1	1	....	1	1	....	1	1	....	..	..	..	..	..	..	..	..	..	..	1	..
64. Cerebral hæmorrhage, apoplexy	5	....	..	..	..	..	..	..	..	....	..	1	....	1	..	3	..	1	4	....	4	1	....	....	5	....	1	..	..	..	..	..	..	..	..	..	3	1
66. Paralysis without specified cause	8	....	..	..	..	..	..	..	..	....	..	1	1	1	4	1	..	4	4	....	4	3	1	1	7	....	..	2	1	1	..	1	..	1	1	..	1	..
69. Epilepsy	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
71. Convulsions of infants	2	....	1	..	1	..	..	..	..	....	..	..	....	..	..	..	..	....	2	....	2	....	....	2	....	....	..	1	..	..	..	..	..	..	..	..	..	1

PEEL—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
III.—Diseases of the Circulatory System.																																						
Group Total	42	..	..	..	..	..	..	..	..	..	1	4	2	13	14	8	..	25	17	..	24	14	4	6	35	1	4	2	6	2	3	5	3	4	4	5	2	2
78. Acute endocarditis	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	1	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..
79. Organic diseases of the heart	25	..	..	..	..	..	..	..	..	..	1	2	1	5	11	5	..	13	12	..	13	10	2	3	21	1	2	2	4	2	1	1	3	3	1	3	2	1
80. Angina pectoris	2	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	2	..	..	1	1	..	..	2	..	..	..	..	..	..	1	..	..	1	..	..	..	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	13	..	..	..	..	..	..	..	..	..	..	..	..	7	3	3	..	9	4	..	9	3	1	2	11	..	2	..	..	..	2	3	..	1	2	2	..	1
82. Embolism and thrombosis	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	1	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	20	1	1	1	..	1	..	..	..	3	..	3	2	1	6	1	..	11	9	..	18	1	1	10	9	1	3	4	2	4	2	1	..	2	..	..	..	2
89. Acute bronchitis	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..
90. Chronic bronchitis	3	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	..	..	3	..	1	1	1	2	1	..	1	1	..	1	..	..	..	..	..	..	..	..
91. Broncho-pneumonia	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
92. Pneumonia	10	1	..	1	..	1	..	..	..	1	..	1	2	..	3	..	..	8	2	..	10	..	..	6	3	1	2	1	1	3	1	..	..	1	..	..	..	1
93. Pleurisy	4	..	..	..	..	..	..	..	..	1	..	1	..	1	1	..	..	2	2	..	4	..	..	..	4	..	..	1	1	..	1	..	..	1	..	..	..	..
96. Asthma	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	21	6	..	..	..	..	..	2	1	2	2	1	1	4	2	..	..	11	10	..	16	3	2	11	8	2	2	1	2	2	3	3	1	1	2	2	..	2
99. Diseases of the mouth and adnexa	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..
100. Diseases of the pharynx	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..
102. Ulcer of the stomach	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	4	2	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	2	2	..	3	..	1	3	1	..	1	..	..	..	..	1	..	1	..	1	..	..
104. Diarrhœa and enteritis (under 2 years)	4	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	..	4	..	..	4	..	..	1	..	..	..	..	1	..	..	2	..	..	..
108. Appendicitis and typhlitis	3	..	..	..	..	..	..	..	..	1	1	..	..	1	..	..	..	2	1	..	2	1	..	1	1	1	1	..	1	1	1	..	..	..	..	..	..	..
109. Hernias, intestinal obstructions	2	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	1	1	..	..	1	1	..	2	..	..	..	1	..	..	..	..	1	..	..	..	..
110. Diseases of the intestines	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
113. Cirrhosis of the liver	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
115. Other diseases of the liver	2	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	1	..	2	..	..	..	2	..	..	..	..	..	..	1	..	..	1	..	..	..
117. Simple peritonitis (non-puerperal)	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	8	..	..	..	..	..	..	..	..	..	1	1	1	1	4	..	..	6	2	..	7	..	1	1	5	2	1	1	1	1	..	..	1	..	..	1	1	1
120. Bright's disease	5	..	..	..	..	..	..	..	..	..	1	1	1	1	1	..	..	3	2	..	4	..	1	1	3	1	1	..	..	1	..	..	1	..	..	..	1	1
124. Diseases of the bladder	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..
126. Diseases of the prostate	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	2	..	..	2	..	..	..	2	..	..	1	..	..	..	..	..	..	..	..	1	..	..
VII.—The Puerperal State.																																						
Group Total	2	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	2	..	2	..	..	..	2	..	..	..	..	..	..	..	1	..	..	..	..	..	1
134. Accidents of pregnancy	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	1	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..
137. Puerperal septicæmia	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1

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CAUSES OF DEATH IN THE COUNTY OF PERTH, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	520	64	11	8	1	3	9	7	10	30	32	26	38	72	109	89	11	300	220	.....	300	181	39	174	300	46	45	43	49	45	31	51	45	35	39	44	48	45
I.—General Diseases.																																						
Group Total	112	4	4	3	..	2	3	2	3	9	17	8	13	17	16	8	3	60	52	....	87	23	2	41	64	7	4	11	6	12	7	15	11	10	5	11	11	9
1. Typhoid fever	6	....	1	..	..	..	..	1	..	....	1	1	....	2	..	..	..	3	3	....	6	....	....	2	4	....	..	..	..	..	1	..	1	..	2	2	..
7. Scarlet fever	3	....	1	1	..	1	..	..	..	....	..	..	....	..	..	..	..	2	1	....	3	....	....	3	....	....	1	1	..	..	..	..	..	..	1	..	..
8. Whooping cough	3	1	1	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	2	....	3	....	....	3	....	....	..	..	..	..	1	1	..	..	..	..	1	..
9. Diphtheria and croup	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
10. Influenza	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
18. Erysipelas	4	....	..	..	..	..	..	..	..	....	1	..	1	1	1	..	..	3	1	....	3	1	....	....	3	1	..	1	..	..	..	1	..	..	..	1	1	..
20. Purulent infection and septicæmia	2	....	..	..	..	..	..	..	..	....	1	1	....	..	..	..	..	2	....	....	1	1	....	1	1	....	..	..	..	..	..	1	..	..	..	1	..	..
21. Glanders	1	..	..	..	..	..	..	..	..	....	1	..	..	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
28. Tuberculosis of the lungs	28	1	..	..	..	..	..	..	3	8	2	2	3	1	1	..	..	16	12	....	25	3	....	15	12	1	..	3	3	3	..	5	4	2	3	2	1	2
30. Tuberculous meningitis	7	1	1	1	..	..	..	..	..	....	1	2	1	..	..	..	..	3	4	....	6	....	1	4	2	1	..	..	..	1	1	..	1	..	..	1	2	1
39. Cancer and other malignant tumors of the buccal cavity	6	....	..	..	..	..	..	..	..	....	..	1	....	1	2	2	..	5	1	....	3	3	....	....	6	....	..	1	1	..	..	1	..	1	..	1	..	1
40. Cancer and other malignant tumors of the stomach, liver	12	....	..	..	..	..	..	..	..	....	..	2	2	4	4	..	..	6	6	....	11	1	....	2	10	....	..	1	1	2	..	1	2	2	..	1	..	2
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	5	....	..	..	..	..	..	..	..	....	..	1	1	2	1	..	..	4	1	....	2	2	1	1	3	1	1	1	..	2	..	..	..	..	..	1	..	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	4	....	..	..	..	..	..	..	..	....	1	..	3	..	..	..	..	....	4	....	4	....	....	....	3	1	1	..	..	..	..	..	..	2	..	..	..	1
45. Cancer and other malignant tumors of other organs and of organs not specified	5	....	..	..	..	..	..	..	..	....	..	..	....	1	4	..	..	3	2	....	2	3	....	....	3	2	..	..	..	..	..	1	2	..	1	..	1	..
47. Acute articular rheumatism	4	1	..	..	..	..	2	..	..	....	..	..	....	..	..	..	1	2	2	....	4	....	....	4	....	....	..	..	..	..	..	2	2	..	..	..	..	..
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	..	..	....	1	..	....	..	1	..	..	1	1	....	1	1	....	....	2	....	..	..	..	..	1	..	1	..	..	..	..	..
50. Diabetes	8	....	..	..	..	1	1	..	..	1	2	..	....	1	1	1	..	4	4	....	6	2	....	3	5	....	..	1	..	1	..	1	1	1	1	..	1	1
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	6	....	..	..	..	..	..	..	..	....	1	..	....	3	1	1	..	....	3	....	2	4	....	....	6	....	1	..	1	1	..	1	..	..	..	..	1	1
55. Other general diseases	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	54	5	1	1	..	1	2	1	..	1	..	3	6	13	8	11	1	29	25	....	30	19	5	16	35	3	2	6	5	6	1	7	8	2	2	3	6	6
61. Simple meningitis	5	1	1	..	..	1	2	..	..	....	..	..	....	..	..	..	..	3	2	....	5	....	....	5	....	....	..	1	..	1	..	1	..	..	1	..	2	..	1
64. Cerebral hæmorrhage, apoplexy	22	....	..	..	..	..	..	..	..	....	..	..	3	10	4	4	1	13	9	....	8	10	4	1	19	2	1	4	5	1	1	2	2	..	..	2	3	1

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PERTH—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
VII.—The Puerperal State.																																						
Group Total	10	....	..	..	..	..	..	..	1	4	4	1	....	..	..	..	..	....	10	....	9	1	....	1	7	2	..	2	2	1	1	..	1	..	..	..	..	3
134. Accidents of pregnancy	3	....	..	..	..	..	..	..	1	1	1	..	....	..	..	..	..	....	3	....	3	....	....	....	2	1	..	1	..	..	..	..	..	..	..	..	..	2
136. Other accidents of labor	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
137. Puerperal septicæmia	6	....	..	..	..	..	..	..	..	3	2	1	....	..	..	..	..	....	6	....	5	1	....	1	4	1	..	1	2	1	1	..	..	..	..	..	..	1
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	6	....	..	..	..	..	..	..	..	1	1	1	....	1	1	1	..	5	1	....	4	2	....	1	5	....	..	2	1	1	..	1	1	..	..	..	..	..
142. Gangrene	3	....	..	..	..	..	..	..	..	1	..	..	....	..	1	1	..	3	....	....	2	1	....	1	2	....	..	1	..	1	..	1	..	..	..	..	..	..
143. Furuncle	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	1	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
144. Acute abscess	2	....	..	..	..	..	..	..	..	....	1	1	....	..	..	..	..	1	1	....	2	....	....	....	2	....	..	1	..	..	..	..	1	..	..	..	..	..
X.—Malformations.																																						
Group Total	9	9	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	7	2	....	9	....	....	9	....	....	2	..	1	..	1	3	..	..	1	..	1	..
150. Congenital malformations (still-births not included)	9	9	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	7	2	....	9	....	....	9	....	....	2	..	1	..	1	3	..	..	1	..	1	..
XI.—Diseases of Early Infancy.																																						
Group Total	33	33	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	19	14	....	33	....	....	33	....	....	..	1	5	1	3	2	2	4	5	6	2	2
151. Congenital debility, icterus and sclerema	32	32	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	19	13	....	32	....	....	32	....	....	..	1	5	1	3	1	2	4	5	6	2	2
152. Other diseases peculiar to early infancy	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
154. XII.—Old Age.																																						
Group Total	90	....	..	..	..	..	..	..	..	....	..	..	....	..	43	46	1	55	35	....	24	58	8	8	74	8	12	8	9	6	5	4	9	6	7	7	8	9
XIII.—Affections Produced by External Causes.																																						
Group Total	24	....	1	2	1	..	2	..	..	3	2	3	1	2	..	5	2	18	6	....	11	9	4	11	11	2	..	..	4	..	2	2	3	3	3	3	3	1
155. Suicide by poison	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
158. Suicide by drowning	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	1
159. Suicide by firearms	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	....	1	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
164. Poisoning by food	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	2	1	....	..	..	..	..	..	..	2	1	..	..	..	..
165. Other acute poisonings	3	....	..	1	..	..	1	..	..	....	..	1	....	..	..	..	..	1	2	....	3	....	....	2	1	....	..	..	..	..	..	..	..	..	1	..	..	..
167. Burns (conflagration excepted)	2	....	1	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
169. Accidental drowning	2	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	1	..	..	..
172. Traumatism by fall	2	....	..	..	..	..	..	..	..	....	..	1	....	1	..	..	..	2	....	....	1	1	....	....	2	....	..	..	..	..	..	..	..	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	2	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	1	2	....	....	....	1	1	....	1	1	..	..	1	..	..	..	..	..	..	..	1	..
176. Injuries by animals	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
178. Excessive cold	2	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	1	2	....	....	1	....	1	2	....	....	..	..	..	..	..	..	..	..	..	..	1	..
185. Fractures (cause not specified)	7	....	..	..	..	..	..	..	..	1	..	..	1	1	..	4	..	5	2	....	2	5	....	2	4	1	..	..	2	..	..	..	2	..	1	1	1	..
XIV.—Ill-Defined Diseases.																																						
Group Total	12	....	..	..	..	..	..	..	..	1	2	2	3	4	..	..	..	9	3	....	4	4	4	....	11	1	2	1	1	2	1	1	1	..	2	..	1	..
189. Cause of death not specified or ill-defined	12	....	..	..	..	..	..	..	..	1	2	2	3	4	..	..	..	9	3	....	4	4	4	....	11	1	2	1	1	2	1	1	1	..	2	..	1	..
Still-Births.																																						
Not included in totals	38	38	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	24	13	1	38	....	....	38	....	....	3	2	2	4	4	5	3	4	3	4	3	1

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	470	82	18	4	5	.....	8	5	7	26	27	41	36	55	97	51	8	260	211	.....	341	99	30	181	257	32	36	39	40	34	41	42	46	40	26	30	56	40
I.—General Diseases.																																						
Group Total	114	14	3	..	2	..	2	1	3	12	12	17	19	12	12	4	1	61	53	....	86	22	6	45	57	12	7	10	6	9	7	9	15	13	4	5	19	10
1. Typhoid fever	3	....	..	..	..	..	..	..	1	..	....	1	..	1	..	..	..	..	3	....	1	....	2	1	1	1	..	1	..	1	..	..	1	..	..	..	..	..
6. Measles	15	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	..	..	..	2	..	..	..	..	1
7. Scarlet fever	4	2	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	1	3	....	4	....	....	4	....	....	..	..	..	1	..	..	..	..	..	..	..	..	1
8. Whooping cough	8	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4	....	8	....	....	8	....	....	..	..	..	..	..	1	1	1	..	..	33.	2
10. Influenza	3	....	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	3	....	....	1	1	....	....	1	1	..	..	..	..	2	..	..	..	..	..	..	..	..
14. Dysentery	1	....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..	..
18. Erysipelas	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..	..
20 Purulent infection and septicæmia	3	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	2	....	3	....	....	....	3	....	..	..	..	..	..	..	..	1	..	..	1	1	..
28. Tuberculosis of the lungs	25	....	..	..	..	1	..	..	5	6	3	4	3	..	..	..	..	14	11	....	22	1	2	7	14	4	2	1	2	4	2	3	3	2	..	1	3	2
30. Tuberculous meningitis	4	1	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	3	1	....	4	....	....	4	....	....	..	..	..	..	1	1	..	..	1	..	..	..
31. Abdominal tuberculosis	4	....	..	1	..	..	..	..	1	....	..	1	..	1	..	..	..	3	1	....	3	....	1	3	....	....	..	1	..	..	..	1	..	..	..	..	1	..	..
34. Tuberculosis of other organs	3	....	..	..	..	..	..	..	1	1	..	1	..	..	..	..	..	1	2	....	2	1	....	3	....	....	..	..	1	..	..	..	..	..	..	..	1	..	..
36. Rickets	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..	..
37. Syphilis	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	....	1	....	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	....	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	6	....	..	..	..	..	..	..	..	..	..	1	3	2	..	..	..	4	2	....	4	2	....	1	4	1	..	..	1	..	..	..	1	1	1	1	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	6	....	..	..	..	..	..	..	..	..	..	1	1	2	2	..	..	2	4	....	3	3	....	1	5	....	..	1	..	..	..	..	1	..	..	..	2	2
42. Cancer and other malignant tumors of the female genital organs	2	....	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	....	2	....	2	....	....	1	1	....	..	..	..	..	..	1	..	..	..	..	..	..	1
43. Cancer and other malignant tumors of the breast	3	....	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	....	3	....	2	1	....	....	3	....	..	1	..	..	..	1	..	1	..	..	..	..	..
45. Cancer and other malignant tumors of the organs and of organs not specified	7	....	..	..	..	..	..	..	..	..	..	..	2	2	..	3	..	5	2	....	5	2	....	2	4	1	1	2	..	..	1	..	..	1	..	..	..	..	..
47. Acute articular rheumatism	3	....	..	..	..	..	..	..	1	1	..	1	..	..	..	..	..	1	2	....	3	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	3	....	..	..	..	..	..	..	..	..	..	1	..	1	..	1	..	1	1	....	....	3	....	1	2	....	....	..	..	..	..	1	..	..	1	..	..	..	..
50. Diabetes	3	....	..	..	..	..	..	..	..	..	..	1	..	..	1	..	1	....	3	....	....	3	....	....	3	....	....	..	..	..	..	..	..	..	1	..	..	..	..
51. Exophthalmic goitre	2	....	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	....	2	....	1	1	....	....	2	....	....	1	1	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	15	1	..	..	..	..	..	..	..	3	3	2	1	3	3	..	..	2	13	....	11	3	1	3	10	2	3	1	1	..	1	2	2	3	1	1	..	..
55. Other general diseases	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	....	1	....	1	....	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
56. Alcoholism (acute or chronic)	2	....	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	1	1	....	1	1	....	1	1	....	..	..	..	..	..	..	..	..	..	..	..	..	1

PETERBOROUGH—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	36	6	1	2	..	..	1	..	..	2	1	4	2	5	8	3	1	21	15	....	25	10	1	17	18	1	6	2	2	3	3	4	2	2	1	2	3	6
60. Encephalitis	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
61. Simple meningitis	7	3	1	1	..	..	1	..	..	..	..	..	1	..	..	..	..	4	3	....	6	1	....	6	1	....	2	..	1	..	1	2	..	1	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	14	....	..	..	..	..	..	..	..	..	..	2	1	3	4	3	1	7	7	....	5	8	1	2	11	1	2	1	1	1	2	..	1	1	1	1	2
66. Paralysis without specified cause	5	....	..	..	..	..	..	..	..	..	1	1	....	..	3	..	..	4	1	....	4	1	....	2	3	....	..	..	..	..	1	..	1	..	..	..	..	3
68. Other forms of mental alienation	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
69. Epilepsy	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
71. Convulsions of infants	3	2	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	3	....	....	3	....	....	3	....	....	1	1	..	..	..	1	..	..	..	..	..	..
73. Neuralgia and neuritis	2	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	..	..	..	..	..	1	..	..
74. Other diseases of the nervous system	2	....	..	..	..	..	..	..	..	..	..	1	....	1	..	..	..	....	2	....	2	....	....	1	1	....	1	..	..	..	..	..	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	66	....	..	..	..	..	..	..	1	1	3	8	3	18	23	8	1	36	30	....	38	23	5	10	52	4	3	4	10	..	8	7	6	9	3	7	3	6
78. Acute endocarditis	3	....	..	..	..	..	..	..	..	..	..	2	....	1	..	..	..	2	1	....	2	1	....	1	2	....	..	2	1	..	..	..	..	..	..	..	..	..
79. Organic diseases of the heart	38	....	..	..	..	..	..	..	1	1	3	6	3	10	10	3	1	20	18	....	25	10	3	5	32	1	3	1	7	..	4	3	4	7	2	1	2	4
80. Angina pectoris	1	....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	24	....	..	..	..	..	..	..	..	..	..	..	....	7	12	5	..	13	11	....	11	11	2	4	17	3	..	1	2	..	4	4	2	2	1	5	1	2
IV.—Diseases of the Respiratory System.																																						
Group Total	34	7	5	..	..	..	..	..	..	3	1	1	5	2	9	1	..	19	15	....	26	5	3	18	14	2	3	4	7	1	2	3	3	1	1	2	4	3
89. Acute bronchitis	4	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	....	4	....	....	4	....	....	..	..	1	..	..	..	2	..	..	..	1	..
90. Chronic bronchitis	3	....	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..	1	2	....	1	2	....	....	3	....	1	1	..	..	..	..	..	..	..	..	..	..
91. Broncho-pneumonia	8	2	1	..	..	..	..	..	..	..	..	1	1	..	3	..	..	3	5	....	6	1	1	3	5	....	1	1	2	..	..	2	..	..	..	1	..	1
92. Pneumonia	14	2	2	..	..	..	..	..	..	2	1	..	1	2	4	..	..	9	5	....	10	2	2	7	5	2	..	2	3	1	1	1	1	..	..	2	2
93. Pleurisy	2	....	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	2	....	....	2	....	....	1	1	....	..	1	..	..	..	..	..	..	..	..	1	..
94. Pulmonary congestion, pulmonary apoplexy	1	....	..	..	..	..	..	..	..	..	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
96. Asthma	2	....	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	2	....	....	2	....	....	2	....	....	..	..	..	..	1	..	..	..	1	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	39	9	7	2	..	..	3	1	..	2	..	3	3	5	2	1	1	19	20	....	36	1	2	25	13	1	5	2	3	3	2	2	1	2	8	4	4	3
101. Diseases of the œsophagus	1	....	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
102. Ulcer of the stomach	2	....	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	1	....	2	....	....	1	1	....	1	1	..	..	..	..	..	..	..	..	..	..
108. Other diseases of the stomach (cancer excepted)	13	3	3	..	..	..	..	..	..	..	..	..	1	4	1	..	1	6	7	....	11	....	2	7	5	1	2	..	2	1	..	1	..	1	4	..	..	2
104. Diarrhœa and enteritis (under 2 years)	10	6	4	..	..	..	..	..	..	..	..	..	....	..	..	..	..	3	7	....	10	....	....	10	....	....	..	..	1	..	..	1	..	..	2	1	4	1
105. Diarrhœa and enteritis (2 years and over)	2	....	..	1	..	..	1	..	..	..	..	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	..	..	..	..	..	..	1	..	..	1	..	..
108. Appendicitis and typhlitis	3	....	..	..	..	..	..	1	..	1	..	1	....	..	..	..	..	2	1	....	3	....	....	2	1	....	..	..	..	1	1	..	1	..	..	..	..	..

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PETERBOROUGH—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
154. XII.—Old Age.																																						
Group Total	50	..	..	..	..	..	..	..	..	..	..	..	..	..	29	29	1	27	32	....	29	23	7	5	48	6	5	6	2	8	7	3	6	3	2	4	7	6
XIII.—Affections Produced by External Causes.																																						
Group Total	30	2	1	..	1	..	2	3	2	2	4	6	1	3	2	..	1	22	8	....	24	5	1	13	15	2	2	1	2	1	3	4	5	3	4	2	2	1
163. Other suicides	3	..	..	..	..	..	..	..	..	..	..	2	1	..	..	..	..	2	1	....	3	....	....	....	3	....	..	..	1	..	..	1	1	..	..	..	..	..
167. Burns (conflagration excepted)	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	....	1	....	....	....	....	1	..	..	..	..	..	1	..	..	..	..	..	..
169. Accidental drowning	8	..	1	..	1	..	..	2	1	1	1	..	..	..	..	..	1	5	3	....	7	1	....	6	2	....	1	..	..	..	..	2	3	1	1	..	..	..
170. Traumatism by firearms	2	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	2	..	....	..	1	1	2	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1
172. Traumatism by fall	2	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	2	..	....	2	..	....	..	2	....	..	..	..	..	..	..	..	1	..	..	1	..	..
173. Traumatism in mines and quarries	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	....	1	..	....	..	1	....	..	..	..	..	..	1	..	..	..	..	..	..
175. Traumatism by other crushing (vehicles, rail road, landslides, etc.	2	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	2	..	....	1	1	....	..	2	....	..	..	..	..	..	..	..	1	1	..	..
176. Injuries by animals	2	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	2	..	....	1	1	....	1	1	....	..	..	..	..	..	1	..	..	1	..	..	..
178. Excessive cold	2	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	..	2	..	....	2	..	....	1	1	....	1	..	..	..	..	..	1	..	..	..	..	1	..
185. Fractures (cause not specified)	2	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	2	..	....	2	..	....	1	1	....	..	..	..	..	..	..	..	1	1	1	..	..	..
186. Other external violence	5	2	..	..	..	..	..	..	..	..	1	..	..	2	..	..	..	2	3	....	4	1	....	2	2	1	..	1	..	1	..	..	1	1	1	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	20	1	1	..	2	..	..	..	..	1	1	1	1	6	3	1	2	12	8	....	13	3	4	1	16	3	..	4	..	1	2	1	4	3	1	2	2	..
189. Cause of death not specified or ill-defined	20	1	1	..	2	..	..	..	..	1	1	1	1	6	3	1	2	12	8	....	13	3	4	1	16	3	..	4	..	1	2	1	4	3	1	2	2	..
Still-Births.																																						
Not included in totals	48	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	30	14	4	48	....	....	48	....	....	7	5	5	5	6	4	2	5	2	4	2	1

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	613	219	21	10	7	11	24	16	17	28	26	26	31	43	61	52	21	319	294	.....	547	20	46	369	194	50	46	46	70	46	58	37	69	54	58	51	36	42
I.—General Diseases.																																						
Group Total	130	24	3	4	2	3	11	5	7	16	14	9	7	8	11	1	5	71	59	....	116	4	10	74	39	17	8	8	12	9	18	9	20	9	10	13	6	8
1. Typhoid fever	8	....	1	1	..	..	1	2	2	1	..	..	..	..	..	..	..	6	2	....	8	....	....	8	....	....	1	..	1	..	3	..	..	..	..	1	1	1
6. Measles	1	....	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
7. Scarlet fever	7	3	..	1	1	..	2	..	..	..	..	..	..	..	..	..	..	4	3	....	7	....	....	7	....	....	..	..	2	..	..	..	..	1	..	..	1	1
8. Whooping cough	17	15	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	11	6	....	17	....	....	17	....	....	1	1	..	..	..	..	..	..	..	1	..	..
9. Diphtheria and croup	8	....	..	1	1	1	4	1	..	....	..	..	..	..	..	..	..	4	4	....	8	....	....	8	....	....	3	..	..	..	3	..	..	..	..	2	..	..
10. Influenza	7	2	..	1	..	..	..	1	..	..	1	..	..	1	..	..	1	2	5	....	5	....	2	4	1	2	..	3	2	..	..	..	1	..	..	1	..	..
13. Cholera nostras	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
14. Dysentery	3	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	....	3	....	....	3	....	....	..	..	..	1	..	..	1	1	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
28. Tuberculosis of the lungs	46	1	..	..	..	..	3	..	5	12	9	6	4	1	2	..	3	22	24	....	39	3	4	16	20	10	1	3	4	5	5	4	5	1	5	3	5
30. Tuberculous meningitis	2	....	..	..	..	1	..	1	..	....	..	..	..	..	..	..	..	2	..	....	2	....	....	2	....	....	..	..	..	..	1	..	1	..	..	..	..	..
31. Abdominal tuberculosis	1	....	..	..	..	..	..	..	..	....	..	..	..	..	..	..	1	..	1	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
34. Tuberculosis of other organs	2	....	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	2	..	....	2	....	....	1	1	....	..	..	..	..	1	..	..	..	..	1	..	..
36. Rickets	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	..	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	....	..	..	..	..	1	..	..	1	..	....	1	....	....	....	....	1	..	..	1	..	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	7	....	..	..	..	..	..	..	..	....	..	1	....	3	3	..	..	4	3	....	6	....	1	....	5	2	..	..	1	..	2	..	4	..	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	2	....	..	..	..	..	..	..	..	....	..	1	1	..	..	..	..	....	2	....	1	....	1	1	1	....	..	..	..	..	..	..	..	2	..	..	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	....	1	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	3	....	..	..	..	..	..	..	..	....	1	..	....	1	..	1	..	1	2	....	2	1	....	....	3	....	..	..	..	..	1	..	..	..	2	..	..	..
47. Acute articular rheumatism	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	..	1	....	..	..	..	..	1	..	..	2	2	....	2	....	....	1	1	....	..	..	1	..	..	..	..	1	..	..	..	..
50. Diabetes	3	....	1	..	..	..	..	..	..	1	..	..	....	1	..	..	..	3	....	1	2	....	1	2	1	....	1	..	..	..	1	1	..	..	..	..	..	..
54. Anæmia, chlorosis	4	....	..	..	..	..	..	..	..	....	1	1	1	..	1	..	..	2	2	....	3	....	1	....	3	1	..	..	..	..	..	..	..	2	..	1	..	1
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	....	1	1	..	..	..	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	35	2	..	1	2	1	3	1	2	....	..	2	3	2	3	6	..	12	13	....	30	2	3	14	19	2	6	1	1	1	3	2	5	1	4	4	4	3
61. Simple meningitis	5	1	..	..	1	..	2	1	..	....	..	..	....	..	..	..	..	3	..	....	5	....	....	5	....	....	..	..	..	..	1	1	1	1	..	1	..	..
62. Locomotor ataxia	3	....	..	1	1	1	..	..	..	....	..	..	....	..	..	..	..	1	2	....	3	....	....	3	....	....	3	..	..	..	..	..	..	..	..	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
64. Cerebral hæmorrhage, apoplexy	11	..	..	..	..	..	..	..	..	..	..	2	..	3	3	..	3	..	9	2	..	10	1	..	2	8	1	..	1	..	1	1	..	2	..	2	1	2	1
66. Paralysis without specified cause	10	..	..	..	..	..	..	..	..	..	..	..	..	5	2	3	..	4	6	..	7	..	3	..	9	1	2	..	..	..	..	1	1	..	2	1	2	1
68. Other forms of mental alienation	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1
69. Epilepsy	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
71. Convulsions of infants	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..
74. Other diseases of the nervous system	3	..	..	..	..	..	1	..	..	..	..	..	..	2	..	..	..	2	1	..	2	1	..	1	2	..	..	1	..	..	..	..	..	..	1	..	..	1	..
III.—Diseases of the Circulatory System.																																						
Group Total	31	..	..	..	..	..	..	1	..	..	1	1	2	9	7	6	4	16	15	..	24	3	4	4	21	6	3	2	..	4	2	3	2	2	3	..	4	6
79. Organic diseases of the heart	22	..	..	..	..	..	..	..	..	..	1	1	2	6	7	4	1	13	9	..	19	2	1	2	17	3	2	1	..	3	1	3	..	1	3	..	2	6
81. Diseases of the arteries, atheroma, aneurysm, etc.	8	..	..	..	..	..	..	..	..	..	..	..	..	3	..	2	3	2	6	..	4	1	3	1	4	3	1	1	..	..	1	..	2	1	..	..	2	..
82. Embolism and thrombosis	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	54	10	5	1	1	1	4	2	2	1	2	4	7	2	5	5	2	26	28	..	47	2	5	29	19	6	5	7	11	7	6	2	1	1	4	3	3	4
87. Diseases of the larynx	3	..	..	..	..	1	1	1	..	..	..	..	..	..	..	..	..	2	1	..	3	..	..	3	..	..	..	1	..	..	..	..	..	..	2	..	..	..
89. Acute bronchitis	6	2	..	..	..	..	1	..	..	..	1	..	1	..	..	1	..	3	3	..	5	..	1	3	3	..	..	..	1	2	3	..	..	..	..	..	..	..
90. Chronic bronchitis	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..
91. Broncho-pneumonia	3	..	1	..	..	..	..	..	..	..	..	..	..	..	1	1	..	2	1	..	3	..	..	1	2	..	..	1	1	..	..	1	..	..	..	..	..	..	..
92. Pneumonia	34	8	3	1	1	..	2	1	2	1	1	4	5	1	2	1	1	14	20	..	29	1	1	19	11	1	5	3	7	5	3	1	1	..	2	2	2	3
93. Pleurisy	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..
94. Pulmonary congestion, pulmonary apoplexy	4	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	1	1	3	..	3	1	..	3	1	..	..	2	1	..	..	..	..	..	..	1	..	..
95. Gangrene of the lung	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	1	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..
96. Asthma	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
V.—Diseases of the Digestive System.																																						
Group Total	69	49	4	1	..	2	1	1	1	..	2	1	..	3	2	1	1	38	31	..	68	..	1	63	4	2	4	3	5	4	6	2	8	11	11	6	4	5
100. Diseases of the pharynx	2	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	1	1	..	2	..	..	2	..	..	..	..	..	..	..	..	..	..	..	1	1	..
103. Other diseases of the stomach (cancer excepted)	6	3	..	..	..	..	..	..	..	..	1	..	..	1	..	1	..	1	5	..	6	..	..	4	1	1	..	..	1	..	..	1	1	..	1	2	..	..
104. Diarrhœa and enteritis (under 2 years)	47	45	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	31	16	..	47	..	..	47	..	..	2	1	2	3	5	1	6	9	9	3	3	3
105. Diarrhœa and enteritis (2 years and over)	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..
108. Appendicitis and typhlitis	2	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	2	..	..	1	..	1	1	..	..	..	..	..	..	..	..	..	..	1	..	..	1
109. Hernias, intestinal obstructions	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	2	..	2	..	..	..	2	..	..	..	..	..	..	1	..	1	..	..	..	..	..
110. Diseases of the intestines	3	..	..	..	..	..	1	1	..	..	1	..	..	..	..	..	..	1	2	..	3	..	..	3	..	..	1	..	1	..	..	..	..	..	..	..	..	..	1
113. Cirrhosis of the liver	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..
115. Other diseases of the liver	2	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	1	..	2	..	..	1	1	..	..	1	..	1	..	..	..	..	..	..	..	..	..
117. Simple peritonitis (non-puerperal)	3	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	3	..	..	3	..	..	1	..	1	..	..	..	..	..	1	..	..	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	18	..	..	..	1	..	1	1	1	2	1	2	4	1	2	2	..	9	9	..	14	2	2	6	10	2	2	4	1	1	1	1	3	..	..	2	1	2
119. Acute nephritis	2	..	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	1	1	..	2	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	1	1
120. Bright's disease	14	..	..	..	..	..	..	1	1	1	..	2	4	1	2	2	..	8	6	..	10	2	2	4	8	2	2	2	1	1	1	1	3	..	..	1	..	2
124. Diseases of the bladder	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..
130. Other diseases of the uterus	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
		0-1																																			
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	236	20	1	.....	1	.....	4	3	4	14	11	8	20	29	53	67	1	114	122	.....	197	27	12	56	166	14	18	28	25	22	26	23	15	8	22	17	17	15
I.—General Diseases.																																						
Group Total	49	....	..	..	..	..	..	1	..	1	5	6	2	6	17	6	5	..	19	30	....	40	7	2	7	36	6	2	4	4	6	11	4	2	4	4	4	2	2
1. Typhoid fever	1	....	..	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
10. Influenza	4	....	..	..	..	..	..	..	..	....	..	..	1	2	..	1	..	....	4	....	....	4	....	....	1	3	....	..	1	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	11	....	..	..	..	..	..	..	..	3	4	1	1	2	..	1	..	..	5	6	....	9	1	1	3	7	1	..	..	..	2	2	5	..	..	..	..	2	..	..
34. Tuberculosis of other organs.	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..	..
35. Disseminated tuberculosis.	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	6	....	..	..	..	..	..	..	..	....	..	..	....	3	..	3	..	3	3	....	4	2	....	....	5	1	1	1	..	2	1	..	..	..	..	1	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	7	....	..	..	..	..	..	..	..	1	1	..	1	1	3	..	..	3	4	....	5	1	1	....	6	1	..	..	..	..	..	1	..	..	2	2	..	1	1
42. Cancer and other malignant tumors of the female genital organs	3	....	..	..	..	..	..	..	..	....	..	..	1	1	1	..	..	....	3	....	2	1	....	....	3	....	..	..	..	..	..	1	2	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	3	....	..	..	..	..	..	..	..	....	..	..	1	1	1	..	..	....	3	....	3	....	....	1	2	....	..	..	..	..	..	2	..	..	..	..	1	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	4	....	..	..	..	..	..	..	..	....	..	..	....	2	1	1	..	....	4	....	3	1	....	....	4	....	..	..	..	..	..	1	..	1	..	1	1	..	..
50. Diabetes	2	....	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	2	....	....	2	....	....	....	1	1	..	1	..	..	..	..	..	..	1	..	..	..	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..	1
54. Anæmia, chlorosis	5	....	..	..	..	..	..	..	..	....	1	..	....	1	..	..	..	4	1	....	5	....	....	....	4	1	..	2	..	..	..	2	1	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	31	....	..	..	1	..	1	..	..	....	1	..	3	5	11	9	..	19	12	....	28	1	2	5	25	1	6	1	2	1	3	1	4	..	2	6	3	2
61. Simple meningitis	1	....	..	..	1	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..	..
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	16	....	..	..	..	..	..	..	..	....	..	..	1	3	7	5	..	7	9	....	14	1	1	1	14	1	3	..	..	1	1	1	..	1	..	2	4	1	2
65. Softening of the brain	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..	..
66. Paralysis without specified cause	10	....	..	..	..	..	1	..	..	....	..	..	....	1	4	4	..	8	2	....	9	....	1	1	9	....	1	1	1	..	1	1	2	..	..	..	1	..	..
69. Epilepsy	2	....	..	..	..	..	..	..	..	....	..	..	2	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	..	1	..	1	..	..	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	30	....	..	..	..	..	..	..	..	....	..	1	1	6	10	12	..	17	13	....	28	1	1	1	28	1	..	5	4	7	2	2	..	..	2	2	4	2
78. Acute endocarditis	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..	..
79. Organic diseases of the heart	18	....	..	..	..	..	..	..	..	1	4	6	7	..	..	..	..	8	10	....	16	1	1	1	16	1	..	3	4	5	1	1	..	..	1	1	..	..	..
80. Angine pectoris	2	....	..	..	..	..	..	..	..	....	..	1	....	1	..	..	..	2	....	....	2	....	....	....	2	....	..	..	..	..	1	..	..	..	..	..	1	1	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	9	....	..	..	..	..	..	..	..	....	..	..	....	1	3	5	..	6	3	....	9	....	....	....	9	....	..	1	..	2	..	1	..	..	..	..	..	1	2

| | | |

PRINCE EDWARD—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
154. XII.—Old Age.																																						
Group Total	48	....	..	..	..	..	..	..	..	....	..	..	....	..	13	35	..	19	29	....	34	12	2	2	42	4	2	6	6	4	5	6	2	3	5	1	6	2
XIII.—Affections Produced by External Causes.																																						
Group Total	10	....	..	..	..	..	..	1	1	2	1	1	2	..	1	1	..	9	1	....	8	2	....	5	5	....	1	2	..	..	1	2	2	..	1	..	..	1
163. Other suicides	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
169. Accidental drowning	3	....	..	..	..	..	..	1	1	1	..	..	....	..	..	..	..	3	....	....	3	....	....	3	....	....	..	..	..	..	..	..	2	..	..	..	..	1
172. Traumatism by fall	3	....	..	..	..	..	..	..	..	....	1	..	....	..	1	1	..	2	1	....	2	1	....	1	2	....	..	2	..	..	..	1	..	..	..	..	..	..
174. Traumatism by machines	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
185. Fractures (cause not specified)	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
186. Other external violence	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	2	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	1	1	1	....	1	....	1	1	....	1	..	1	..	..	..	..	..	..	1	..	..	..
189. Cause of death not specified or ill-defined	2	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	1	1	1	....	1	....	1	1	....	1	..	1	..	..	..	..	..	..	1	..	..	..
Still-Births.																																						
Not included in totals	16	16	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	14	....	16	....	....	16	....	....	2	1	2	2	..	..	2	3	1	..	2	1

CAUSES OF DEATH IN THE DISTRICT OF RAINY RIVER, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	79	22	4	.....	1	1	1	1	3	11	6	6	2	6	5	.....	10	52	27	.....	48	14	17	39	21	19	10	4	8	6	7	6	3	8	10	6	5	6
I.—General Diseases.																																						
Group Total	18	3	1	.....	...	1	.....	...	...	4	2	1	.....	3	1	...	2	13	5	.....	10	5	3	7	6	5	3	2	3	1	1	1	..	2	1	1	1	2
1. Typhoid fever	1	.....	..	...	...	...	...	...	...	1	..	..	.....	..	...	...	...	.....	1	.....	1	.....	.....	.....	1	.....	..	1	..	...	...	...	...	..	...	...	...	...
9. Diphtheria and croup	1	.....	1	...	...	...	...	...	...	.....	..	..	.....	..	...	...	...	1	.....	.....	1	.....	.....	1	.....	.....	..	...	...	...	...	...	...	1	..	...	...	...
10. Influenza	2	1	...	...	...	1	...	...	...	.....	..	..	.....	..	...	...	...	1	1	.....	1	1	.....	1	1	.....	1	1	...	...	...	...	...	...	...	...	...	...
18. Erysipelas	2	2	...	...	...	...	...	...	...	.....	..	..	.....	..	...	...	...	1	1	.....	2	.....	.....	2	.....	.....	...	2	...	...	...	...	...	...	...	...	...	...
28. Tuberculosis of the lungs	7	.....	...	...	...	...	...	...	...	3	2	1	.....	...	...	...	1	5	2	.....	3	2	2	3	1	3	2	...	1	...	...	1	...	...	1	2	...
40. Cancer and other malignant tumors of the stomach, liver	2	.....	...	...	...	...	...	...	...	.....	...	...	.....	2	...	...	...	2	.....	.....	1	1	.....	.....	1	1	..	...	...	...	...	...	...	1	1	...	...
45. Cancer and other malignant tumors of other organs and of organs not specified	1	.....	...	...	...	...	...	...	...	.....	...	...	.....	1	...	...	...	1	.....	.....	...	1	.....	.....	1	.....	..	...	...	1	...	...	...	...	...	...	...
48. Chronic rheumatism and gout	1	.....	...	...	...	...	...	...	...	.....	...	...	.....	...	...	...	1	1	.....	.....	...	...	1	.....	1	.....	...	...	...	...	1	...	...	...	...	...	...
54. Anæmia, chlorosis	1	.....	...	...	...	...	...	...	...	.....	...	...	.....	1	...	...	...	1	.....	.....	1	.....	.....	.....	.....	1	...	...	...	...	1	...	...	...	...	...	...
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	3	1	..	...	...	...	...	...	...	.....	...	..	1	1	...	...	...	3	.....	.....	1	.....	2	1	.....	2	...	...	...	...	...	...	1	..	1	..	1	..
61. Simple meningitis	1	1	...	...	...	...	...	...	...	.....	...	...	.....	...	...	...	...	1	.....	.....	1	.....	.....	1	.....	.....	...	...	...	...	...	...	...	...	1	..
64. Cerebral hæmorrhage, apoplexy	1	.....	...	...	...	...	...	...	...	.....	...	...	1	...	...	...	...	1	.....	.....	.....	.....	1	.....	1	.....	...	...	...	...	...	...	...	1	...	...	...
73. Neuralgia and neuritis	1	.....	...	...	...	...	...	...	...	.....	...	...	.....	1	...	...	...	1	.....	.....	.....	.....	1	.....	.....	1	...	...	...	...	...	...	1	...	...	...	...
III.—Diseases of the Circulatory System.																																					
Group Total	7	.....	1	...	...	...	...	...	...	1	..	2	.....	1	...	...	2	6	1	.....	2	1	4	1	2	4	...	...	...	...	1	...	...	2	3	...	1	...
78. Acute endocarditis	1	.....	1	...	...	...	...	...	...	.....	...	...	.....	...	...	...	...	1	.....	.....	1	.....	.....	1	.....	.....	...	...	...	...	...	...	...	...	...	1	...
79. Organic diseases of the heart	6	.....	...	...	...	...	...	...	...	1	..	2	.....	1	...	...	2	5	1	.....	1	1	4	.....	2	4	...	...	...	...	1	...	...	2	3	...	...	...
IV.—Diseases of the Respiratory System.																																					
Group Total	7	2	...	...	...	...	1	...	...	.....	1	2	.....	1	...	...	...	4	3	.....	5	2	.....	4	3	.....	2	...	1	1	1	...	...	...	2	...	...	...
89. Acute bronchitis	3	2	...	...	...	...	1	...	...	.....	...	...	.....	...	...	...	...	1	2	.....	3	.....	.....	3	.....	.....	1	...	...	...	...	...	...	...	2	...	...	...
92. Pneumonia	4	.....	..	...	...	...	...	...	...	.....	1	2	.....	1	...	...	...	3	1	.....	2	2	.....	1	3	.....	1	...	1	1	1	...	...	...	...	...	...	...

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
V.—Diseases of the Digestive System.																																						
Group Total	**5**	3	..	..	..	..	..	1	1	....	..	..	....	..	..	..	..	2	3	....	5	....	....	5	....	....	..	..	..	..	2	..	..	..	3	..	..	..
104. Diarrhœa and enteritis (under 2 years)	3	3	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	1	....	3	....	....	3	....	....	..	..	..	..	1	..	..	..	2	..	..	..
108. Appendicitis and typhlitis	2	....	..	..	..	..	..	1	1	....	..	..	....	..	..	..	..	....	2	....	2	....	....	2	....	....	..	..	..	..	1	..	..	..	1	..	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	**1**	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	..	..	..	1
126. Diseases of the prostate	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	..	..	..	1
VII.—The Puerperal State.																																						
Group Total	**4**	....	..	..	..	..	..	..	..	3	1	..	....	..	..	..	..	....	4	....	1	2	1	....	4	....	1	1	1	1	..	..	..	..	..	..	..	..
136. Other accidents of labor	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	....	2	....	....	1	1	....	2	....	1	..	..	1	..	..	..	..	..	..	..	..
137. Puerperal septicæmia	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
138. Puerperal albuminuria and convulsions	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
XI.—Diseases of Early Infancy.																																						
Group Total	**13**	13	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	6	7	....	13	....	....	13	....	....	1	1	3	..	1	2	..	1	1	1	1
151. Congenital debility, icterus and sclerema	13	13	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	6	7	....	13	....	....	13	....	....	1	1	3	..	1	2	..	1	1	1	1
154. XII.—Old Age.																																						
Group Total	**3**	....	..	..	..	..	..	..	..	....	..	..	....	..	3	..	..	2	1	....	....	1	2	....	2	1	..	..	..	..	..	..	..	2	..	..	..	1
XIII.—Affections Produced by External Causes.																																						
Group Total	**10**	....	1	..	..	..	..	..	1	2	1	..	....	..	..	..	5	10	....	....	4	2	4	3	3	4	3	..	..	2	..	..	1	1	..	1	1	1
166. Conflagration	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
167. Burns (conflagration excepted)	2	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	1	2	....	....	1	....	1	1	....	1	..	..	..	..	..	..	..	1	..	..	..	1
169. Accidental drowning	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	....	....	1	....	....	1	..	..	..	..	..	..	1	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	5	....	..	..	..	..	..	1	2	..	..	..	....	..	..	..	2	5	....	....	2	1	2	1	2	2	2	..	..	1	..	..	..	..	1	1	..
183. Homicide by cutting or piercing instruments	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	**8**	....	1	..	1	..	..	..	1	1	1	1	1	..	..	..	1	5	3	....	6	1	1	5	1	3	..	..	..	1	1	3	1	..	1	1	..	..
189. Cause of death not specified or ill-defined	8	....	1	..	1	..	..	..	1	1	1	1	1	..	..	..	1	5	3	....	6	1	1	5	1	2	..	..	..	1	1	3	1	..	1	1	..	..
Still-Births.																																						
Not included in totals	5	5	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	2	2	5	....	....	5	....	....	1	..	..	..	..	..	1	1	2	..	..	..

CAUSES OF DEATH IN THE COUNTY OF RENFREW, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	603	112	22	13	4	1	12	14	12	52	35	35	57	55	80	80	10	327	276	.....	424	132	47	278	287	38	59	52	63	54	56	60	43	41	40	47	40	48
I.—General Diseases.																																						
Group Total	124	15	9	6	1	..	3	4	3	16	11	16	18	11	10	..	1	62	62	....	100	17	7	65	53	6	14	10	6	13	14	15	7	10	8	12	6	9
1. Typhoid fever	4	....	..	..	..	..	..	..	..	1	3	..	..	..	..	..	..	3	1	....	4	....	....	3	1	....	..	..	..	..	..	..	..	1	1	2	..	..
2. Typhus fever	2	....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	1	1	....	1	1	....	2	....	....	2	..	..	..	..	..	..	..	..	..	..	..
6. Measles	5	3	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	1	....	5	....	....	5	....	....	..	..	..	..	1	..	..	3	1	..	..	..
7. Scarlet fever	3	..	2	..	..	..	1	..	..	..	..	..	..	..	..	..	..	2	1	....	3	....	....	3	....	....	..	1	..	..	..	..	1	..	..	1	..	..
8. Whooping cough	16	10	4	2	..	..	..	..	..	..	..	..	..	..	..	..	..	6	10	....	16	....	....	16	....	....	1	..	..	2	4	1	..	1	1	..	3	3
9. Diphtheria and croup	6	..	4	..	..	..	1	1	..	..	..	..	..	..	..	..	..	1	5	....	6	....	....	6	....	....	1	..	1	..	1	1	..	1	..	..	1	..	..
10. Influenza	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
14. Dysentery	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	..	..	1	..	1	....	..	..	..	..	..	..	..	1	..	..	..	..
18. Erysipelas	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	....	1	....	....	..	1	....	..	..	..	..	..	1	..	..	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
24. Tetanus	1	....	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
28. Tuberculosis of the lungs	27	....	..	..	..	..	..	..	2	6	7	4	5	2	1	..	..	19	8	....	20	4	3	13	12	2	2	2	2	3	4	4	1	1	2	2	3	1
30. Tuberculous meningitis	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
31. Abdominal tuberculosis	1	....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	....	1	....	....	..	1	....	..	..	..	1	..	..	..	..	..	..	..	..	..
33. White swelling	1	....	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..	..
34. Tuberculosis of other organs	3	....	1	..	..	..	..	..	..	..	..	2	..	..	..	..	..	2	1	....	3	....	....	1	2	....	..	1	..	..	..	2	..	..	..	..	..	..
37. Syphilis	1	....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	....	....	....	1	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	6	....	..	..	..	..	..	..	..	1	..	..	1	1	3	..	..	4	2	....	5	1	....	....	5	1	..	2	1	..	..	1	..	..	..	2	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	3	....	..	..	..	..	..	..	..	1	..	..	1	..	1	..	..	....	3	....	3	....	....	1	2	....	1	..	1	..	..	..	..	..	..	..	..	1
42. Cancer and other malignant tumors of the female genital organs	6	....	..	..	..	..	..	..	..	1	..	2	2	1	..	..	..	....	6	....	4	2	....	3	2	1	2	1	..	1	..	1	1	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
45. Cancer and other malignant tumors of other organs and of organs not specified	7	....	..	..	..	..	..	..	..	..	1	1	3	1	1	..	..	4	3	....	3	3	1	....	6	1	1	..	..	2	..	2	..	1	..	..	..	1
47. Acute articular rheumatism	3	....	..	..	1	..	..	1	..	..	..	..	1	..	..	..	..	1	2	....	3	....	....	2	1	....	..	..	1	..	1	..	..	1	..	..	..	..
48. Chronic rheumatism and gout	7	....	..	..	..	..	..	..	2	..	..	2	..	..	3	..	..	4	3	....	3	4	....	1	6	....	..	..	..	2	1	..	1	1	..	2	..	..
50. Diabètes	7	....	..	..	..	..	..	1	..	..	1	..	3	1	1	..	..	3	4	....	6	1	....	3	1	....	..	1	..	1	2	..	2	..	..	1	..	..
54. Anæmia, chlorosis	7	....	..	..	..	..	..	..	..	2	1	..	1	3	..	..	..	2	5	....	5	1	1	1	5	1	2	1	..	..	..	2	..	..	1	..	..	1
55. Other general diseases	1	....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..

RENFREW—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	49	12	2	1	..	1	1	..	..	2	2	3	4	6	5	9	1	28	21	....	34	9	6	21	26	2	4	2	3	8	2	7	5	5	..	2	6
61. Simple meningitis	4	1	1	..	..	1	1	..	..	....	..	..	....	..	..	..	..	2	2	....	4	....	....	4	....	....	..	..	1	1	..	..	1	1	..	..	..	..
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
63. Other diseases of the spinal cord	2	....	1	..	..	..	..	..	..	1	..	..	....	..	..	..	..	2	....	....	1	....	1	1	1	....	..	..	..	..	..	..	1	..	..	..	..	1
64. Cerebral hæmorrhage, apoplexy	20	....	..	..	..	..	..	..	..	....	1	1	3	5	3	6	1	10	10	....	11	5	4	....	19	1	1	..	1	4	2	2	2	2	3	..	1	2
66. Paralysis without specified cause	5	....	..	..	..	..	..	..	..	....	..	1	....	1	..	3	..	3	2	....	1	3	1	....	4	1	1	..	..	..	..	3	..	..	..	..	..	1
68. Other forms of mental alienation	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
69. Epilepsy	3	....	..	..	..	..	..	..	..	1	1	1	....	..	..	..	..	3	....	....	2	1	....	3	....	....	..	..	..	1	..	..	..	1	..	..	..	1
70. Convulsions (non-puerperal)	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
71. Convulsions of infants	11	11	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	6	5	....	11	....	....	11	....	....	1	1	1	2	..	2	1	1	2	..	..	..
73. Neuralgia and neuritis	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
III.—Diseases of the Circulatory System.																																						
Group Total	68	....	..	..	..	..	..	..	..	5	5	1	6	16	22	10	3	42	26	....	31	25	12	10	49	9	8	8	10	3	9	6	3	5	7	4	2	3
78. Acute endocarditis	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
79. Organic diseases of the heart	49	....	..	..	..	..	..	..	..	3	5	..	4	11	17	6	3	32	17	....	22	18	9	8	34	7	8	7	6	2	6	4	1	5	2	4	2	2
81. Diseases of the arteries, atheroma, aneurysm, etc.	16	....	..	..	..	..	..	..	..	....	..	1	1	5	5	4	..	10	6	....	6	7	3	2	12	2	..	1	3	1	3	2	2	..	3	..	..	1
82. Embolism and thrombosis	2	....	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	....	2	....	2	....	....	....	2	....	..	..	1	..	..	..	..	..	1	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	39	6	3	2	..	..	3	1	..	2	2	3	6	1	7	3	..	16	23	....	30	8	1	19	19	1	5	3	1	4	6	4	3	1	1	4	4	3
87. Diseases of the larynx	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
89. Acute bronchitis	3	2	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	1	....	3	....	....	3	....	....	1	1	..	..	..	..	..	1	..	..	..	..
90. Chronic bronchitis	4	....	..	..	..	..	..	..	..	....	..	..	....	..	4	..	..	1	3	....	3	1	....	1	3	....	1	..	..	..	..	..	1	..	..	1	1	..
91. Broncho-pneumonia	4	2	1	1	..	..	..	..	..	....	..	..	....	..	..	..	..	4	....	....	4	....	....	....	4	....	1	..	1	1	..	..	..	..	..	1	..	..
92. Pneumonia	19	3	1	1	..	..	..	1	..	2	1	2	4	..	3	2	..	6	13	....	14	5	....	7	12	....	2	1	..	3	6	3	1	..	..	1	..	2
93. Pleurisy	3	....	..	..	..	..	1	..	..	....	1	..	1	..	..	..	..	1	2	....	3	....	....	1	2	....	..	1	..	..	..	1	..	..	..	..	1	..
94. Pulmonary congestion, pulmonary apoplexy	3	....	..	..	..	..	1	..	..	....	..	1	....	..	..	1	..	2	1	....	1	2	....	2	....	1	..	..	..	..	..	..	..	..	..	2	..	1
96. Asthma	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	....	2	....	1	....	1	....	2	....	..	..	..	..	..	..	..	1	..	..	1	..
V.—Diseases of the Digestive System.																																						
Group Total	39	10	1	2	..	..	..	2	1	3	3	..	7	4	3	2	1	24	15	....	32	5	2	24	13	2	4	1	3	3	3	2	2	4	4	5	3	5
102. Ulcer of the stomach	2	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	1	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	1	..	1	..
103. Other diseases of the stomach (cancer excepted)	9	2	..	1	..	..	..	..	..	....	..	..	3	..	3	..	..	6	3	....	5	3	1	5	4	....	..	..	..	2	1	1	..	..	1	3	1	1
104. Diarrhœa and enteritis (under 2 years)	9	8	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	7	2	....	9	....	....	9	....	....	..	..	1	..	1	..	1	1	3	1	..	1
105. Diarrhœa and enteritis (2 years and over)	2	....	1	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	1	..	..	..	..	..	1	..	..	..
108. Appendicitis and typhlitis	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
109. Hernias, intestinal obstructions	3	....	..	..	..	..	..	..	..	....	..	..	....	1	..	2	..	3	....	....	2	1	....	1	2	....	..	..	..	..	..	..	..	..	..	1	..	2
113. Cirrhosis of the liver	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
115. Other diseases of the liver	4	....	..	..	..	..	..	..	..	1	1	..	2	..	..	..	..	1	3	....	4	....	....	2	2	....	..	..	..	..	..	..	1	..	..	..	..	1
116. Diseases of the spleen	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	1	1	....	1	....	1	....	1	1	1	..	..	1	..	..	..	..	..	..	..	..
117. Simple peritonitis (non-puerperal)	6	....	..	..	..	..	1	1	1	2	..	..	1	..	..	..	..	2	4	....	5	1	....	3	2	1	1	1	..	1	..	..	..	..	1	..	..	..

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CAUSES OF DEATH IN THE COUNTY OF SIMCOE, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	1042	177	41	9	9	7	24	18	18	63	74	80	67	138	194	117	6	540	499	3	733	202	107	472	510	60	101	104	91	91	80	82	95	98	92	62	69	77
I.—General Diseases.																																						
Group Total	218	16	12	4	3	2	8	7	7	22	33	24	15	35	26	12	2	99	119	....	178	21	19	112	91	15	23	21	14	15	17	18	29	24	19	15	12	11
1. Typhoid fever	11	....	..	..	..	..	1	1	1	3	4	..	..	..	..	..	1	8	3	....	7	4	....	10	....	1	1	..	1	..	..	..	1	2	..	3	..	3
6. Measles	2	....	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	2	....	2	....	....	2	....	....	..	..	..	2	..	..	..	..	..	..	..	..
7. Scarlet fever	7	1	2	..	..	1	1	..	1	....	1	..	..	..	..	..	..	2	5	....	7	....	....	6	1	....	1	1	1	1	....	1	..	..	1	1	..
8. Whooping cough	18	12	4	1	..	..	1	..	..	..	..	..	..	..	..	..	..	9	9	....	18	....	....	18	....	....	2	2	..	2	..	1	2	4	2	1	2	..
9. Diphtheria and croup	7	....	2	..	1	1	1	2	..	..	..	..	..	..	..	..	..	5	2	....	7	....	....	7	....	....	1	..	1	1	..	1	..	..	..	..	..	2
10. Influenza	3	....	..	..	..	..	1	..	..	..	1	..	..	..	1	..	..	....	3	....	2	1	....	2	1	....	..	1	..	..	..	..	..	..	..	1	1	..
13. Cholera nostras	3	....	..	..	..	..	..	..	..	..	..	1	..	2	..	..	..	1	2	....	2	1	....	1	2	....	1	..	..	..	..	..	1	..	1	..	..	..
14. Dysentery	2	....	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	1	....	1	....	1	2	....	....	..	..	..	..	..	..	..	1	1	..	..	..
18. Erysipelas	2	....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	2	....	....	1	1	....	....	1	1	..	1	..	..	..	1	..	..	..	..	..	..
20. Purulent infection and septicæmia	2	....	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	2	....	....	2	....	....	....	2	....	..	..	..	..	..	..	1	1	..	..	..	..
24. Tetanus	1	....	..	..	..	..	..	..	1	....	..	..	..	..	..	..	..	1	....	....	....	....	1	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
28. Tuberculosis of the lungs	60	1	1	1	..	..	1	1	3	16	19	7	4	6	..	..	..	25	35	....	52	2	6	28	28	4	7	3	6	5	6	4	6	5	5	7	3	3
29. Acute miliary tuberculosis	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
30. Tuberculous meningitis	3	1	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	3	....	....	3	....	....	3	....	....	..	1	..	..	..	..	1	1	..	..	..	..
31. Abdominal tuberculosis	1	....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	3	....	..	..	..	..	..	..	..	..	..	..	..	1	2	..	..	2	1	....	2	....	1	....	3	....	..	..	1	..	..	..	1	..	..	..	..	1
40. Cancer and other malignant tumors of the stomach, liver	16	....	..	..	..	..	..	..	..	..	2	2	2	3	7	..	..	8	8	....	13	3	....	4	11	1	2	1	..	..	1	1	2	4	2	2	1	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	5	....	..	..	..	..	..	..	..	..	1	1	....	2	1	..	..	2	3	....	5	....	....	2	3	....	1	1	..	..	1	1	..	..	..	..	1	..
42. Cancer and other malignant tumors of the female genital organs	7	....	..	..	..	..	..	..	..	..	..	2	2	1	2	..	..	....	7	....	3	3	1	1	6	....	1	..	2	2	2	..	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	2	....	..	..	..	..	..	..	..	..	..	1	....	..	1	..	..	....	2	....	1	1	....	1	1	....	..	1	..	..	1	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	16	....	..	..	..	..	..	1	..	....	1	3	2	4	4	1	..	7	9	....	12	2	2	7	7	2	2	1	1	..	..	6	3	..	2	..	1
47. Acute articular rheumatism	5	....	..	..	..	..	..	1	1	....	1	..	1	..	1	..	..	2	3	....	4	....	1	4	1	....	2	1	..	..	..	..	..	..	1	..	1	..
48. Chronic rheumatism and gout	4	....	..	..	..	..	..	..	..	..	..	..	..	3	1	..	..	2	2	....	3	....	1	....	3	1	..	2	..	..	..	..	..	..	1	..	..	..
50. Diabetes	11	....	..	..	1	..	..	..	..	..	1	2	2	3	1	1	..	5	6	....	9	2	....	4	6	1	..	3	1	..	1	2	1	3	..	..	..	..
51. Exophthalmic goitre	2	....	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	1	1	....	2	....	....	1	1	....	..	1	..	..	..	..	..	1	..	..	..	..
53. Leucæmia	1	....	..	..	..	..	..	..	..	..	..	..	....	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	18	....	..	..	..	..	1	1	..	....	2	2	1	9	2	..	..	8	10	....	13	1	4	4	12	2	1	1	..	2	2	2	1	2	..	1	..	..
55. Other general diseases	4	1	..	1	..	..	1	..	..	1	..	..	..	..	..	..	1	1	3	....	4	....	....	3	1	....	1	..	..	..	1	..	..	1	..	..	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	....	....	1	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	45	....	..	..	..	1	1	..	1	4	2	2	5	15	10	4	..	31	14	....	26	15	4	8	34	3	3	8	3	7	2	3	2	2	3	2	7	3
119. Acute nephritis	6	....	..	..	..	1	1	..	..	....	2	1	....	1	..	..	..	5	1	....	4	1	1	2	4	....	..	3	..	..	1	1	..	1	..	..	..	..
120. Bright's disease	29	....	..	..	..	..	..	..	..	3	..	1	5	13	5	2	..	19	10	....	17	9	3	4	22	3	2	4	2	6	1	2	1	1	3	2	4	1
122. Other diseases of the kidneys and adnexa	4	....	..	..	..	..	..	..	1	1	..	..	....	1	1	..	..	1	3	....	3	1	....	2	2	....	1	1	..	..	..	..	..	..	..	..	1	..
124. Diseases of the bladder	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..
126. Diseases of the prostate	5	....	..	..	..	..	..	..	..	....	..	..	....	..	3	2	..	5	....	....	2	3	....	....	5	....	..	..	..	1	..	..	1	..	..	1	2
VII.—The Puerperal State.																																						
Group Total	13	....	..	..	..	..	..	..	1	8	2	1	....	..	..	..	1	....	13	....	7	2	4	1	11	1	2	2	2	..	2	2	2	..	1	..	..	..
134. Accidents of pregnancy	2	....	..	..	..	..	..	..	..	2	..	..	....	..	..	..	..	....	2	....	2	....	....	....	2	....	1	..	..	..	..	..	1	..	..	..	..	..
135. Puerperal hæmorrhage	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	....	1	....	1	....	....	....	..	..	..	..	1	..	..	..	..	..	..
136. Other accidents of labor	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	....	2	....	....	1	1	....	2	....	1	..	..	..	..	..	..	1	..	..	..	..
137. Puerperal septicæmia	6	....	..	..	..	..	..	..	..	3	1	1	....	..	..	..	1	....	6	....	3	....	3	....	5	1	..	2	2	..	..	1	1	..	..	..	..	..
138. Puerperal albuminuria and convulsions	2	....	..	..	..	..	..	..	1	1	..	..	....	..	..	..	..	....	2	....	2	....	....	....	2	....	..	..	..	..	1	1	..	..	..	..	..	..
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	5	....	..	..	..	..	..	..	..	1	..	..	....	..	1	2	1	3	2	....	3	1	1	1	1	....	1	2	..	..	1	..	..	..	..	..	1	..
142. Gangrene	3	....	..	..	..	..	..	..	..	....	..	..	....	..	..	2	1	1	2	....	1	1	1	....	3	....	..	2	..	..	..	..	..	..	..	..	1	..
144. Acute abscess	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
145. Other diseases of the skin and adnexa	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
X.—Malformations.																																						
Group Total	9	9	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	6	....	9	....	....	9	....	....	1	..	..	..	2	1	..	2	..	1	1	1
150. Congenital malformations (still-births not included)	9	9	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	6	....	9	....	....	8	....	....	1	..	..	..	2	1	..	2	..	1	1	1
XI.—Diseases of Early Infancy.																																						
Group Total	103	103	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	57	43	3	103	....	....	103	....	....	10	10	12	8	12	5	8	12	7	3	9	7
151. Congenital debility, icterus and sclerema	99	99	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	55	41	3	99	....	....	99	....	....	10	9	12	7	11	4	8	12	7	3	9	7
152. Other diseases peculiar to early infancy	3	3	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	1	....	3	....	....	3	....	....	..	1	..	1	1	..	..	..	..	..	..	..
153. Lack of care	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
154. XII.—Old Age.																																						
Group Total	139	....	..	..	..	..	..	..	..	....	..	..	....	2	63	74	..	72	67	....	49	66	24	8	121	10	12	13	13	15	10	14	18	10	12	8	6	8

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																	Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	804	123	21	6	7	1	21	5	16	38	44	45	55	90	147	169	16	446	358	.....	613	59	132	308	423	73	83	70	77	71	71	58	70	63	61	59	63
I.—General Diseases.																																						
Group Total	169	8	6	1	1	1	9	..	5	14	25	19	26	24	16	10	4	75	94	....	134	12	23	67	84	18	15	12	14	15	22	14	8	15	9	17	12	16
1. Typhoid fever	9	....	..	1	..	..	2	..	..	2	1	3	....	..	..	..	..	7	2	....	8	....	1	6	3	....	1	1	2	..	..	..	..	2	..	2	1	..
7. Scarlet fever	2	....	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	..	..	..	..
8. Whooping cough	6	4	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	3	....	6	....	....	6	....	....	..	..	..	..	1	2	..	1	1	..	..	1
9. Diphtheria and croup	3	....	..	..	..	..	3	..	..	..	..	..	..	..	..	..	..	2	1	....	3	....	....	2	....	1	..	1	..	..	..	..	..	..	..	..	..	..
10. Influenza	5	1	1	..	..	..	..	..	..	..	..	..	..	1	2	..	..	1	4	....	5	....	....	2	2	1	..	..	..	1	1	1	..	..	..	..	1	1	..
13. Cholera nostras	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
19. Other epidemic diseases	1	....	..	..	..	..	..	..	..	..	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
28. Tuberculosis of the lungs	46	....	..	..	..	..	1	..	2	10	18	6	5	1	..	1	2	11	35	....	37	3	6	15	24	7	6	3	1	4	6	6	1	3	3	3	4	6
30. Tuberculous meningitis	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	1	1	..	..	..	..	..	..	..
31. Abdominal Tuberculosis	6	....	..	..	..	..	1	..	..	1	1	1	....	1	..	1	..	5	1	....	3	....	3	5	1	....	..	..	..	..	2	..	..	1	2	..	..	1
34. Tuberculosis of other organs	3	1	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	1	2	....	3	....	....	1	2	....	1	..	..	..	..	1	..	..	..	..	..	..	1
35. Disseminated tuberculosis	1	....	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
36. Rickets	1	....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
37. Syphilis	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	3	....	..	..	..	..	..	..	..	..	..	..	....	2	..	1	..	2	1	....	2	....	1	....	2	1	..	3	..	..	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	13	....	..	..	..	..	..	..	..	..	1	4	5	1	1	1	..	6	7	....	10	2	1	2	10	1	2	1	1	1	..	1	1	..	2	3	..	1
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	10	....	..	..	..	..	..	..	..	..	1	4	2	3	..	..	..	5	5	....	6	2	2	3	5	2	..	..	1	2	..	..	2	1	..	1	3	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	..	1	..	....	..	..	..	..	..	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	3	....	..	..	..	..	..	..	..	..	..	..	....	2	..	1	..	....	3	....	3	....	....	2	1	....	..	..	..	2	..	..	..	..	..	1	..	..
44. Cancer and other malignant tumors of the skin	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	16	....	..	..	..	..	..	..	..	....	1	3	5	4	1	2	..	5	11	....	13	....	3	5	9	2	1	..	2	..	3	..	3	2	3	..	..	2
47. Acute articular rheumatism	4	....	..	..	..	..	..	1	..	1	....	..	1	1	..	..	..	2	2	....	3	1	....	2	2	....	..	..	..	..	2	..	..	..	..	1	..	1
48. Chronic rheumatism and gout	6	....	..	..	..	..	..	..	..	....	1	1	....	1	3	..	..	5	1	....	3	1	2	1	5	....	1	..	..	1	..	..	..	3	..	1	..	1
50. Diabetes	5	....	..	..	..	..	..	..	..	....	..	..	....	2	2	1	..	5	....	....	4	....	1	1	3	1	1	..	..	..	2	..	..	..	..	1	..	1
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	..	1	....	1	....	....	1	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
54. Anæmia, chlorosis	17	....	1	..	1	..	..	..	2	....	1	1	4	3	3	..	1	8	9	....	11	3	3	5	10	2	1	1	1	2	4	2	..	1	..	1	2	2
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	33	1	..	..	..	..	..	..	..	2	2	4	4	6	11	3	..	22	11	....	22	3	8	6	22	5	3	1	2	4	7	1	4	1	1	1	4	1
120. Bright's disease	22	....	..	..	..	..	..	..	..	1	2	2	3	4	8	2	..	15	7	....	15	1	6	5	13	4	2	2	1	4	4	1	3	..	1	1	3	..
122. Other diseases of the kidneys and adnexa	5	1	..	..	..	..	..	..	..	1	..	1	....	1	1	..	..	2	3	....	4	....	1	1	4	....	..	..	1	..	1	..	..	1	..	..	1	1
123. Calculi of the urinary passages	2	....	..	..	..	..	..	..	..	....	..	1	....	..	..	1	..	1	1	....	1	1	....	....	2	....	..	..	..	..	2	..	..	..	..	..	..	..
124. Diseases of the bladder	2	....	..	..	..	..	..	..	..	....	..	..	1	..	1	..	..	2	....	....	1	1	....	....	2	....	1	1	..	..	..	..	..	..	..	..	..	..
126. Diseases of the prostate	2	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	2	....	....	1	....	1	....	1	1	..	1	..	..	..	..	1	..	..	..	..	..
VII.—The Puerperal State.																																						
Group Total	15	....	..	..	..	..	..	..	3	4	5	2	....	..	..	..	1	....	15	....	12	....	3	2	12	1	..	1	2	2	1	2	..	1	2	1	1	2
134. Accidents of pregnancy	4	....	..	..	..	..	..	..	1	1	..	2	....	..	..	..	..	....	4	....	2	....	2	1	3	....	..	..	..	..	..	2	..	..	1	..	..	1
135. Puerperal hæmorrhage	3	....	..	..	..	..	..	..	..	1	2	..	....	..	..	..	..	....	3	....	3	....	....	....	3	....	..	..	..	..	1	..	..	1	1	..	..	..
136. Other accidents of labor	2	....	..	..	..	..	..	..	1	....	1	..	....	..	..	..	..	....	2	....	2	....	....	1	1	....	..	..	..	..	1	..	..	..	..	..	1	..
137. Puerperal septicæmia	4	....	..	..	..	..	..	..	..	1	2	..	....	..	..	..	1	....	4	....	3	....	1	....	3	1	..	1	1	..	1	..	..	..	..	..	..	1
138. Puerperal albuminuria and convulsions	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
139. Puerperal phlegmasia alba dolens, embolus, sudden death	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	8	....	..	..	..	..	1	..	..	....	..	..	....	2	1	4	..	3	5	....	5	....	3	2	5	1	2	..	..	..	1	1	1	1	..	1	1	..
142. Gangrene	6	....	..	..	..	..	..	..	..	....	..	..	....	2	1	3	..	3	3	....	3	....	3	1	4	1	1	..	..	..	1	1	1	..	1	..	..
144. Acute abscess	2	....	..	..	..	..	..	1	..	....	..	..	....	..	..	1	..	....	2	....	2	....	....	1	1	....	1	..	..	..	..	..	..	..	..	..	1	..
IX.—Diseases of the Bones and of the Organs of Locomotion.																																						
Group Total	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
146. Diseases of the bones (tuberculosis excepted)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
X.—Malformations.																																						
Group Total	2	2	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	2	....	2	....	....	2	....	....	1	..	..	..	..	..	..	..	..	..	..	1
150. Congenital malformations (still-births not included)	2	2	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	2	....	2	....	....	2	....	....	1	..	..	..	..	..	..	..	..	..	..	1
XI.—Diseases of Early Infancy.																																						
Group Total	55	55	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	33	22	....	55	....	....	55	....	....	1	8	7	3	5	7	5	3	4	4	2	6
151. Congenital debility, icterus and sclerema		52	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	30	22	....	52	....	....	52	....	....	1	8	7	2	5	7	5	3	4	4	2	4
152. Other diseases peculiar to early infancy		3	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	....	....	3	....	....	3	....	....	..	..	..	..	1	..	..	..	..	..	..	2

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	423	134	25	8	6	5	7	5	7	58	46	35	24	10	14	7	32	292	131	.....	279	55	89	252	102	69	42	31	48	36	34	29	34	35	42	28	30	34
I.—General Diseases.																																						
Group Total	79	8	6	3	3	2	3	..	4	11	8	11	10	1	..	1	8	53	26	....	44	10	25	41	20	15	4	7	9	8	7	5	2	4	8	5	9	11
1. Typhoid fever	15	....	..	1	..	..	..	..	..	1	5	2	3	....	..	..	..	..	3	13	2	....	4	4	7	8	2	5	1	1	..	..	..	1	..	2	1	1	3	5
6. Measles	2	1	1	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	2	....	....	2	....	....	2	....	....	..	..	..	..	1	1	..	..	..	..	..	..
7. Scarlet fever	1	....	..	1	..	..	..	..	..	....	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
8. Whooping cough	4	3	1	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	3	1	....	4	....	....	4	....	....	..	..	..	..	..	..	..	..	..	1	..	..
9. Diphtheria and croup	14	3	3	1	2	2	2	..	1	....	..	..	..	..	..	..	..	..	6	8	....	14	....	....	14	....	....	..	1	2	3	3	3	1	..	1	..	..	..
13. Cholera nostras	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	..	1	....	....	....	....	1	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
14. Dysentery	3	1	..	..	..	..	1	..	..	....	..	..	1	..	..	..	..	..	2	1	....	2	1	....	2	1	....	..	..	..	..	..	..	1	2	..	..	..	..
18. Erysipelas	4	....	..	..	..	..	..	..	..	1	1	..	1	1	..	..	..	..	2	2	....	1	1	2	2	2	....	..	1	..	..	1	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	..	1	....	....	....	....	1	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	14	....	..	..	..	..	..	..	1	4	1	4	2	..	..	1	1	10	4	....	7	4	3	2	9	3	..	2	2	1	1	..	1	..	2	2	2	1
29. Acute miliary tuberculosis	1	....	1	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
31. Abdominal Tuberculosis	1	....	..	..	..	..	..	..	1	....	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..
32. Pott's disease	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..
34. Tuberculosis of other organs	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	..	1	....	....	....	1	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
37. Syphilis	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	1	..	..	..	..	....	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
40. Cancer and other malignant tumors of the stomach, liver	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	..	....	1	....	....	....	1	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	..	1	1	....	1	....	1	1	....	1	1	..	..	1	..	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
50. Diabetes	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	..	....	1	....	1	....	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..
56. Alcoholism (acute or chronic)	9	....	..	..	..	..	..	..	..	....	4	1	....	..	..	..	4	9	....	....	2	....	7	4	1	4	1	..	4	1	..	..	1	1	..	1	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	26	4	3	..	..	..	..	..	..	3	3	2	3	2	2	..	4	21	5	....	15	5	6	9	8	9	3	1	4	1	2	2	3	2	4	2	1	1
61. Simple meningitis	3	1	1	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	2	....	3	....	....	3	....	....	..	1	..	..	..	..	1	1	..	..	..	..
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
64. Cerebral hæmorrhage, apoplexy	7	....	..	..	..	..	..	..	..	....	1	1	1	1	1	..	2	7	....	....	2	2	3	....	2	5	1	..	1	..	1	1	..	..	2	1	..	..
66. Paralysis without specified cause	6	....	..	..	..	..	..	..	..	....	1	..	2	..	1	..	2	6	....	....	4	1	1	....	4	2	1	..	2	1	1	..	..	..	1	..	..	..
69. Epilepsy	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	....	1	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
71. Convulsions of infants	5	3	2	..	..	..	..	..	..	....	..	..	..	..	..	..	..	3	2	....	4	....	1	5	....	....	..	..	..	..	..	..	2	1	..	1	..	1
74. Other diseases of the nervous system	3	....	..	..	..	..	..	..	..	2	1	..	....	..	..	..	..	3	....	....	2	1	....	1	....	2	1	..	..	1	..	..	..	..	..	..	1	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
X.—Malformations.																																						
Group Total	4	4	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	1	....	4	....	....	4	....	....	1	1	..	1	..	..	..	..	..	1	..	..
150. Congenital malformations (still-births not included)	4	4	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	1	....	4	....	....	4	....	....	1	1	..	1	..	..	..	..	..	1	..	..
XI.—Diseases of Early Infancy.																																						
Group Total	81	81	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	43	38	....	80	1	....	81	....	....	7	6	9	6	6	8	7	5	11	3	8	5
151. Congenital debility, icterus, and sclerema	77	77	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	40	37	....	76	1	....	77	....	....	6	6	9	6	5	8	7	5	11	2	7	5
152. Other diseases peculiar to early infancy	3	3	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	....	....	3	....	....	3	....	....	1	..	..	..	..	..	..	..	..	1	..	..
153. Lack of care	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
154. XII.—Old Age.																																						
Group Total	12	....	..	..	..	..	..	..	..	....	..	..	....	..	10	2	..	9	3	....	7	3	2	1	10	1	3	..	1	..	1	..	2	3	1	..	..	1
XIII.—Affections Produced by External Causes.																																						
Group Total	70	....	1	1	1	..	..	2	1	23	16	10	2	1	..	1	11	65	5	....	17	24	29	29	19	22	6	5	5	7	7	8	6	10	4	3	4	5
155. Suicide by poison	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
157. Suicide by hanging or strangulation	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	2	....	....	....	2	....	1	1	....	..	1	..	..	1	..	..	..	..	..	..	..	1
159. Suicide by firearms	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
165. Other acute poisonings	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
166. Conflagration	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	....	1	....	....	....	..	..	..	..	..	..	..	..	..	..	..	..
167. Burns (conflagration excepted)	5	....	1	1	1	..	..	..	..	1	..	..	....	..	..	..	1	2	3	....	3	....	2	3	1	....	..	..	..	3	..	..	1	..	1	..	..	..
169. Accidental drowning	7	....	..	..	..	..	..	1	..	2	1	2	....	..	..	..	1	7	....	....	3	2	2	4	2	1	..	..	..	..	1	3	..	2	..	..	..	1
170. Traumatism by firearms	3	....	..	..	..	..	..	1	..	2	1	2	....	..	..	..	1	3	....	....	2	....	1	4	2	1	..	..	..	..	..	..	..	..	..	..	1	..
172. Traumatism by fall	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	2	....	....	....	1	1	1	....	1	..	..	..	1	..	..	..	..	..	..	..	..
173. Traumatism in mines and quarries	11	....	..	..	..	..	..	..	..	7	3	..	....	..	..	..	1	11	....	....	3	6	2	6	3	2	1	2	..	1	1	1	..	2	..	1	1	1
174. Traumatism by machines	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	15	....	..	..	..	..	..	..	1	2	6	1	1	1	..	..	3	15	....	....	2	5	8	4	3	8	2	..	1	1	2	2	..	4	2	1	..	..
178. Excessive cold	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	....	....	1	1	....	1	1	..	..	..	..	..	..	..	..	..	..	..
180. Lightning	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	1	1	....	....	1	1	....	1	....	..	..	..	1	..	1	..	..	..	..	..	..
185. Fractures (cause not specified)	14	....	..	..	..	..	..	..	..	5	3	3	....	..	..	1	2	13	1	....	2	4	8	4	6	4	2	1	2	1	1	1	1	1	..	1	2
186. Other external violence	3	....	..	..	..	..	..	..	..	1	1	1	....	..	..	..	..	3	....	....	1	1	1	2	....	1	..	1	..	..	..	1	..	1	..	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	30	....	4	2	1	2	1	1	1	5	5	3	2	2	..	..	1	16	14	....	25	1	4	14	10	6	6	2	3	1	2	2	2	3	4	2	..	3
189. Cause of death not specified or ill-defined	30	....	4	2	1	2	1	1	1	5	5	3	2	2	..	..	1	16	14	....	25	1	4	14	10	6	6	2	3	1	2	2	2	3	4	2	..	3
Still-Births.																																						
Not included in totals	34	34	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	16	13	5	34	....	....	34	....	....	2	6	1	2	6	2	5	4	2	..	2	2

CAUSES OF DEATH IN THE DISTRICT OF THUNDER BAY, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	494	164	31	5	5	5	8	6	13	56	65	42	25	24	18	8	19	313	181	.....	343	109	42	293	166	35	24	39	33	26	43	33	44	49	49	40	39	75
I.—General Diseases.																																						
Group Total	113	15	9	2	1	2	4	2	6	10	27	13	9	7	2	..	4	75	38	....	79	24	10	59	45	9	7	8	3	6	9	7	12	7	17	8	8	21
1. Typhoid fever	23	....	..	..	..	..	1	1	1	5	11	2	1	..	..	..	1	22	1	....	11	7	5	11	7	5	1	2	..	2	2	2	2	2	2	..	2	9
6. Measles	4	2	..	..	..	1	1	..	..	....	..	..	..	..	..	..	..	2	2	....	3	1	....	4	....	....	..	2	..	..	..	..	1	1	..	..	..	..
8. Whooping cough	14	5	7	1	..	1	..	..	..	....	..	..	..	..	..	..	..	10	4	....	14	....	....	14	....	....	1	1	..	1	3	..	2	1	2	..	1	2
9. Diphtheria and croup	2	....	..	1	1	..	..	..	..	....	..	..	..	..	..	..	..	2	....	....	2	....	....	2	....	....	..	..	..	..	..	..	1	..	..	..	..	1
10. Influenza	1	....	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
14. Dysentery	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
18. Erysipelas	2	1	..	..	..	..	..	..	1	....	..	..	..	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	1	..	1	..	..	..	..	..	..
20. Purulent infection and septicæmia	2	....	..	..	..	..	..	..	..	....	2	..	..	..	..	..	..	1	1	....	1	1	....	1	1	....	..	..	..	..	..	..	..	..	..	1	1	..
23. Rabies	1	....	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
24. Tetanus	2	....	1	..	..	..	..	..	1	....	..	..	..	..	..	..	..	1	1	....	1	....	....	1	....	....	..	..	..	..	1	..	1	..	..	..	..	..
28. Tuberculosis of the lungs	31	3	1	..	..	..	1	1	2	3	11	4	3	1	..	..	1	17	14	....	22	7	2	17	12	2	3	2	2	2	3	2	3	2	4	4	2	2
30. Tuberculous meningitis	3	1	1	..	..	..	1	..	..	....	..	..	..	..	..	..	..	2	1	....	3	....	....	3	....	....	..	..	..	..	..	1	..	1	..	..	..	1
34. Tuberculosis of other organs	1	....	..	..	..	..	..	1	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
37. Syphilis	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	4	....	..	..	..	..	..	..	..	....	..	3	....	1	..	..	..	1	3	....	4	....	....	....	4	....	..	..	..	..	..	1	..	..	..	..	..	3
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	2	....	..	..	..	..	..	..	..	....	..	1	....	1	..	..	..	....	2	....	1	1	....	....	2	....	..	..	..	..	1	..	..	1	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	2	....	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	....	2	....	....	2	....	....	2	....	..	..	..	..	1	..	..	..	1	..	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	1	....	..	..	..	..	..	..	..	....	..	..	..	..	1	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	....	..	..	..	..	..	..	1	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
50. Diabetes	1	....	..	..	..	..	..	..	..	....	..	..	..	..	1	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
54. Anæmia, chlorosis	3	....	..	..	..	..	..	..	..	....	..	..	1	2	..	..	..	3	....	....	3	....	....	..	3	....	..	..	1	..	..	..	..	1	1	..	..	..
56. Alcoholism (acute or chronic)	9	....	..	..	..	..	..	..	..	1	2	2	3	..	..	..	1	9	....	....	4	3	2	3	5	1	2	1	..	1	..	..	..	1	1	..	2	1
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	38	16	2	..	..	1	1	..	1	2	2	2	3	1	3	3	1	23	15	....	27	10	1	25	11	2	1	6	6	4	2	1	4	5	2	1	2	4
60. Encephalitis	1	....	..	..	..	1	..	..	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
61. Simple meningitis	8	4	..	..	..	..	..	1	1	1	1	....	..	..	..	..	..	2	6	....	6	2	....	6	1	1	..	1	1	1	..	1	1	2	..	..	1	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
63. Other diseases of the spinal cord	1	....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	10	....	..	..	..	..	..	..	..	..	..	1	3	..	3	3	..	7	3	....	5	5	....	1	9	....	..	..	3	1	1	..	1	1	1	..	1	1
66. Paralysis without specified cause	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	....	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
67. General paralysis of the insane	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
71. Convulsions of infants	13	12	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	5	....	12	1	....	13	....	....	..	3	1	1	1	..	2	2	1	..	1
74. Other diseases of the nervous system	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	....	....	....	1	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
76. Diseases of the ears	2	....	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	1	1	....	1	....	1	....	1	1	1	..	..	..	..	..	..	..	..	..	..	1
III.—Diseases of the Circulatory System.																																						
Group Total	32	....	1	..	..	..	..	..	..	3	8	4	4	6	5	1	..	22	10	....	13	15	4	8	23	1	4	3	7	3	4	2	1	3	..	..	3	2
78. Acute endocarditis	4	....	1	..	..	..	..	..	..	1	2	..	..	..	..	..	..	3	1	....	1	3	....	2	2	....	..	1	..	..	..	..	1	..	..	..	1	1
79. Organic diseases of the heart	26	....	..	..	..	..	..	..	..	2	6	4	3	6	4	1	..	17	9	....	12	11	3	6	19	1	4	2	6	3	4	1	..	3	..	..	2	1
81. Diseases of the arteries, atheroma, aneurysm, etc	2	....	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	2	....	....	....	1	1	....	2	....	..	..	1	..	..	1	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	64	21	5	2	2	..	..	..	2	8	7	7	2	3	2	1	2	36	28	....	47	14	3	35	24	5	2	8	3	3	8	5	4	7	2	4	8	10
87. Diseases of the larynx	2	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	1	..	..	1
89. Acute bronchitis	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
90. Chronic bronchitis	6	3	..	..	..	..	..	..	..	..	..	1	....	..	1	1	..	..	6	....	4	1	1	3	3	....	..	1	1	..	..	1	..	2	..	..	1	..
91. Broncho-pneumonia	14	9	2	..	2	..	..	..	..	..	..	1	..	..	..	..	..	9	5	....	14	....	....	13	....	1	..	1	..	..	4	1	1	2	..	1	2	2
92. Pneumonia	38	7	3	1	..	..	..	2	..	7	6	5	2	2	1	..	2	26	12	....	24	13	1	16	19	3	2	6	2	3	4	3	2	3	..	2	5	6
93. Pleurisy	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
96. Asthma	2	....	..	..	..	..	..	..	..	..	1	..	....	1	..	..	..	1	1	....	1	....	1	....	1	1	..	..	..	..	..	..	1	..	1	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	70	45	14	..	2	..	1	1	1	1	2	2	....	1	..	..	..	35	35	....	65	4	1	64	6	....	3	1	2	5	5	3	5	12	13	9	3	9
103. Other diseases of the stomach (cancer excepted)	3	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	....	3	....	....	3	....	....	..	..	1	..	..	..	..	..	1	1	..	..
104. Diarrhœa and enteritis (under 2 years)	49	38	11	..	..	..	..	..	..	..	..	..	..	..	..	..	..	21	28	....	49	....	....	49	....	....	2	1	1	4	4	2	4	11	11	5	2	2
105. Diarrhœa and enteritis (2 years and over)	3	....	..	..	2	..	1	..	..	..	..	..	..	..	..	..	..	2	1	....	1	2	....	3	....	....	..	..	..	..	..	1	..	..	1	..	..	1
108. Appendicitis and typhlitis	1	....	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	....	....	....	1	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
109. Hernias, intestinal obstructions	2	....	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	..	..	1	..	..	..	..	1
110. Diseases of the intestines	7	4	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	1	....	7	....	....	7	....	....	..	..	..	..	..	..	..	..	..	2	1	4
113. Cirrhosis of the liver	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	1	1	....	2	....	....	....	2	....	..	..	..	..	1	..	..	..	..	..	..	1
115. Other diseases of the liver	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
117. Simple peritonitis (non-puerperal)	2	....	..	..	..	..	..	..	..	....	..	1	....	1	..	..	..	2	....	....	1	1	....	....	2	....	..	..	..	..	..	1	..	..	..	1	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	11	....	..	..	..	..	..	..	..	1	1	2	4	2	1	..	..	5	6	....	7	3	1	1	10	....	..	2	..	..	1	..	1	1	1	1	..	4
120. Bright's disease	7	....	..	..	..	..	..	..	..	....	1	2	2	1	1	..	..	4	3	....	5	2	....	1	6	..	..	..	..	..	..	1	..	1	1	1	..	..	3
123. Calculi of the urinary passages	2	....	..	..	..	..	..	..	..	....	..	..	2	..	..	..	..	....	2	....	1	1	....	....	2	....	..	..	..	..	..	..	..	..	..	1	..	1
126. Diseases of the prostate	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	....	1	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
132. Salpingitis and other diseases of the female genital organs	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
VII.—The Puerperal State.																																						
Group Total	11	....	..	..	..	..	..	..	..	4	7	..	....	..	..	..	..	....	11	....	7	4	....	2	8	1	..	1	..	..	1	1	3	..	1	2	1	1
134. Accidents of pregnancy	4	....	..	..	..	..	..	..	..	1	3	..	....	..	..	..	..	....	4	....	3	1	....	1	3	....	..	..	..	..	..	..	3	..	..	..	1	..
136. Other accidents of labor	3	....	..	..	..	..	..	..	..	1	2	..	....	..	..	..	..	....	3	....	....	3	....	....	3	....	..	1	..	..	1	1	..	..	..	..	..	..

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	338	54	10	4	1	.....	5	8	6	17	17	23	25	39	62	66	1	167	171	.....	244	67	27	133	190	15	28	21	39	22	28	23	31	21	30	35	23	28
I.—General Diseases.																																					
Group Total	60	6	..	1	..	..	2	2	..	8	5	9	6	10	8	3	..	29	31	....	45	9	6	22	37	1	2	6	6	1	6	7	7	5	5	9	5	1
1. Typhoid fever	3	....	..	..	..	..	..	..	..	1	..	2	....	..	..	..	..	1	2	....	3	....	....	2	1	....	..	..	..	..	1	2	..	..	..	..	..	..
7. Scarlet fever	1	....	..	..	..	..	1	..	..	..	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
8. Whooping cough	6	6	..	..	..	..	..	..	..	..	..	..	....	..	..	..	..	2	4	....	6	....	....	6	....	....	..	..	1	..	..	2	1	1	..	..	1	..
10. Influenza	2	....	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	1	..	1	..	..	..	..	..	..	..
14. Dysentery	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	....	1	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
28. Tuberculosis of the lungs	12	....	..	..	..	..	1	1	..	5	2	3	....	..	..	..	..	9	3	....	10	1	1	7	4	1	..	1	2	..	2	..	2	1	1	2	1	..
31. Abdominal tuberculosis	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	..	..	..	....	1	..	..	..	1	....	....	....	....	1	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	8	....	..	..	..	..	..	..	..	..	..	..	2	3	3	..	..	5	3	....	4	4	....	1	7	....	..	..	1	..	1	1	1	2	1	1	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	6	....	..	..	..	..	..	..	..	..	..	..	1	3	1	1	..	2	4	....	4	1	1	....	6	....	..	..	1	..	..	..	1	..	1	2	..	1
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	..	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	2	....	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	....	2	....	1	....	1	....	2	....	..	..	..	..	..	..	..	..	1	..	1	..
45. Cancer and other malignant tumors of other organs and of organs not specified	4	....	..	..	..	..	..	..	..	..	1	..	....	..	3	..	..	1	3	....	3	1	....	....	4	....	1	2	..	..	..	..	..	..	..	1	..
48. Chronic rheumatism and gout	4	....	..	..	..	..	..	..	..	..	1	1	....	..	1	1	..	....	4	....	3	....	1	1	3	....	..	..	..	..	..	..	..	..	..	1	1	..
50. Diabetes	3	....	..	..	..	..	..	1	..	1	..	1	....	..	..	..	..	2	1	....	3	....	....	2	1	....	..	..	..	..	1	1	..	..	1	..	..	..
54. Anæmia, chlorosis	4	....	..	..	..	..	..	..	..	1	1	1	....	1	..	..	..	2	2	....	3	1	....	....	4	....	..	1	..	..	1	1	..	..	..	1	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	24	1	2	..	1	..	1	..	..	....	..	2	3	6	5	3	..	11	13	....	17	7	....	11	13	....	2	4	4	1	1	3	2	1	..	3	1	2
61. Simple meningitis	4	....	2	..	..	..	1	..	..	....	..	1	....	..	..	..	..	1	3	....	3	1	....	3	1	....	1	..	..	1	1	..	1	..	..	..	..	1
63. Other diseases of the spinal cord	1	....	..	1	..	..	..	..	..	..	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	7	....	..	..	..	..	..	..	..	1	1	2	3	....	..	..	..	5	2	....	3	4	....	4	3	....	1	2	2	..	..	1	..	1	..	..	..	..
66. Paralysis without specified cause	7	....	..	..	..	..	..	..	..	..	1	..	1	3	2	..	..	....	7	....	6	1	....	1	6	....	..	1	2	..	..	1	1	..	..	..	..	..
69. Epilepsy	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..	..
70. Convulsions (non-puerperal)	3	....	..	..	..	..	..	..	..	..	..	..	1	1	1	..	..	2	1	....	2	1	....	....	3	....	..	..	..	..	..	..	..	..	..	1	1	..
71. Convulsions of infants	1	1	..	..	..	..	..	..	..	..	..	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..

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VICTORIA—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
XI.—Diseases of Early Infancy.																																						
Group Total	30	30	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	15	15	....	30	....	....	30	....	....	4	1	2	3	2	3	2	1	4	2	4	2
151. Congenital debility, icterus, and sclerema	28	28	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	14	14	....	28	....	....	28	....	....	4	1	2	3	1	3	2	1	4	2	3	2
152. Other diseases peculiar to early infancy	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
153. Lack of care	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
154. XII.—Old Age.																																						
Group Total	63	....	..	..	..	..	..	..	..	....	..	..	....	..	19	44	..	28	35	....	25	26	12	5	55	3	7	2	5	1	3	5	8	7	5	8	2	10
XIII.—Affections Produced by External Causes.																																						
Group Total	23	1	1	1	..	..	1	2	..	5	4	..	3	4	..	1	..	16	7	....	22	....	1	12	11	....	..	2	..	1	2	2	1	2	9	..	3	1
165. Other acute poisonings	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
167. Burns (conflagration excepted)	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
168. Absorption of deleterious gases (conflagration excepted)	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
169. Accidental drowning	8	....	..	..	..	..	1	1	..	1	2	..	2	1	..	..	..	5	3	....	8	....	....	4	4	....	..	..	..	1	..	..	..	..	6	..	..	1
170. Traumatism by firearms	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
172. Traumatism by fall	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
176. Injuries by animals	2	....	..	..	..	..	..	..	..	....	..	..	....	2	..	..	..	2	....	....	2	....	....	....	2	....	..	..	..	..	1	..	..	1	..	..	..	..
181. Electricity (lightning excepted)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	....	1	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
185. Fractures (cause not specified)	3	....	..	..	..	..	..	1	..	....	1	..	....	..	..	1	..	2	1	....	3	....	....	2	1	....	..	..	..	..	..	1	1	1	..	..	..	..
186. Other external violence	3	....	..	..	..	..	..	..	..	2	..	..	....	1	..	..	..	2	1	....	3	....	....	1	2	....	..	..	..	..	..	1	..	..	..	2	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	8	....	1	..	..	..	..	1	..	....	3	1	1	1	..	..	..	3	5	....	8	....	....	2	6	....	1	..	4	..	..	..	1	..	..	1	..	1
188. Sudden death	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
189. Cause of death not specified or ill-defined	7	....	1	..	..	..	..	1	..	....	3	..	1	1	..	..	..	2	5	....	7	....	....	2	5	....	1	..	3	..	..	..	1	..	..	1	..	1
Still-Births.																																						
Not included in totals	29	29	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	12	15	2	29	....	....	29	....	....	2	..	2	5	5	2	2	3	3	1	2	2

CAUSES OF DEATH IN THE COUNTY OF WATERLOO, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	661	92	14	10	12	2	17	13	21	48	43	53	51	80	116	87	2	352	309	.....	429	172	60	260	356	45	61	51	64	83	63	53	54	36	33	47	55	61
I.—General Diseases.																																					
Group Total	169	10	5	5	4	1	10	6	11	22	17	18	17	22	16	5	..	82	87	....	129	29	11	83	77	9	17	10	15	23	21	14	11	7	10	10	16	15
1. Typhoid fever	8	....	..	..	..	..	..	1	..	5	1	..	1	..	..	..	..	5	3	....	5	3	....	3	4	1	2	..	1	..	..	1	..	..	1	2	..	1
6. Measles	7	2	3	2	..	..	..	..	..	..	..	..	..	..	..	..	..	3	4	....	7	..	....	7	..	....	..	..	..	3	1	..	1	..	..	..	1	1
7. Scarlet fever	4	..	..	1	..	2	..	..	..	1	..	..	..	..	..	..	..	2	2	....	4	..	....	3	1	..	1	1	1	1	..	..	..	..	..	..	..	..
8. Whooping cough	3	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	....	3	..	....	3	1	....	1	1	1	1	..	..	..	..	..	..	..	..
9. Diphtheria and croup	7	..	2	..	2	..	3	..	..	..	..	..	..	..	..	..	..	4	3	....	7	..	....	7	..	....	..	..	..	3	1	..	1	..	..	..	1	1
10. Influenza	7	..	..	..	..	..	..	..	..	..	..	..	..	3	4	..	..	4	3	....	7	..	....	7	..	....	..	..	..	..	3	..	1	..	..	..	1	1
14. Dysentery	2	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	1	....	2	..	....	..	2	....	1	2	2	1	1	..	..	..	..	..	..	..
18. Erysipelas	6	2	..	..	..	..	..	..	..	....	1	1	....	1	1	..	..	2	4	....	4	1	1	2	4	....	1	1	2	..	1	..	1	..	..	..	..	..
19. Other epidemic diseases	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	..	....	1	..	....	1	..	....	..	..	..	..	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	3	..	..	..	..	..	..	..	..	1	..	1	....	1	..	..	..	2	1	....	2	..	....	1	..	....	1	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	34	..	..	1	..	..	1	..	7	6	5	5	3	4	1	1	..	21	13	....	24	8	2	18	15	1	2	2	1	4	7	4	4	1	..	2	3	4
29. Acute miliary tuberculosis	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	....	1	..	....	1	..	....	..	..	..	..	..	..	..	1	..	..	..	..	..
30. Tuberculous meningitis	4	1	..	1	..	1	1	..	..	..	..	..	..	..	..	..	..	3	2	....	4	..	....	4	..	....	1	..	..	..	2	..	..	..	..	..	..	1
31. Abdominal tuberculosis	5	..	..	1	..	..	1	..	1	....	..	1	..	..	..	..	..	3	2	....	5	..	....	4	1	....	1	..	..	..	1	1	..	..	..	1	..	..
34. Tuberculosis of other organs	2	..	..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	..	2	....	2	..	....	1	1	....	..	..	..	..	..	1	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	2	..	..	..	..	..	..	..	..	....	..	..	....	2	..	..	..	1	1	....	1	..	1	..	1	..	..	..	1	1	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	12	..	..	..	..	..	..	..	..	....	1	1	3	1	6	..	..	5	7	....	9	1	2	1	9	2	..	1	..	3	..	1	1	2	1	1	1	1
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	2	..	..	..	..	..	..	..	..	....	..	..	..	1	1	..	..	1	1	....	1	1	....	....	2	....	1	..	..	..	..	1	..	..	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	6	..	..	..	..	..	..	..	..	....	..	5	....	1	..	..	..	..	6	....	6	..	....	2	4	....	1	..	..	2	..	1	..	..	1	..	1	..
43. Cancer and other malignant tumors of the breast	4	..	..	..	..	..	..	..	..	....	1	..	....	3	..	..	..	..	4	....	2	2	....	....	4	....	..	1	..	1	2	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	14	..	..	..	..	..	1	..	2	3	..	3	3	2	..	..	..	9	5	....	9	4	1	6	8	....	2	..	..	1	1	2	1	1	2	1	2	1
47. Acute articular rheumatism	6	..	..	..	..	..	3	2	..	....	..	..	....	1	..	..	..	1	5	....	4	2	5	1	..	....	2	2	..	1	1	..	..	1	..	..	1	1
48. Chronic rheumatism and gout	5	..	..	..	..	..	..	..	1	1	1	..	1	1	..	..	..	1	4	....	4	..	1	3	1	1	..	..	1	..	2	1	..	..	..	..	..	..
50. Diabetes	9	..	..	..	1	..	1	1	..	1	..	..	2	1	2	..	..	4	5	....	7	2	....	4	5	....	..	1	2	1	1	..	..	1	..	1	1	1
51. Exophthalmic goitre	2	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	1	1	....	2	..	....	1	1	....	..	..	1	..	..	..	..	..	..	..	..	..
53. Leucæmia	2	..	..	..	..	..	..	..	..	....	1	..	....	1	..	..	..	2	..	....	2	..	....	1	1	....	..	..	..	1	..	..	..	1	..	..	..	..
54. Anæmia, chlorosis	8	..	..	..	..	..	..	..	1	1	1	3	2	..	..	..	..	4	4	....	7	1	....	5	2	1	1	..	2	..	1	..	1	..	1	1	..	1
56. Alcoholism (acute or chronic)	3	..	..	..	..	..	..	..	..	2	..	1	....	..	..	..	..	3	..	....	2	1	....	2	1	....	..	..	1	..	..	..	..	..	..	..	..	1

WATERLOO—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	68	12	3	2	4	1	3	..	..	2	2	6	7	8	16	2	..	44	24	....	42	21	5	33	31	1	7	9	4	9	5	5	9	1	4	4	5	6
60. Encephalitis	2	....	..	..	..	..	1	..	..	....	..	1	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	..	..	..	..	..	1	1	..
61. Simple meningitis	4	....	..	..	1	1	..	..	..	....	..	1	1	..	..	..	..	1	3	....	3	1	....	2	2	....	1	..	1	1	..	1	..	..	..	..	..	..
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	..	..	....	..	1	....	..	..	....	..	..	..	..	..	..	..	..	..	..	..	..
63. Other diseases of the spinal cord	2	....	1	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	..	2	....	..	1	..	..	..	..	..	..	..	..	1	..
64. Cerebral hæmorrhage, apoplexy	18	....	..	..	..	..	..	..	..	....	1	1	3	5	7	1	..	13	5	....	4	11	3	2	16	....	1	2	..	3	3	2	2	..	2	..	1	2
65. Softening of the brain	2	....	..	..	..	..	..	..	..	....	..	..	....	..	2	..	..	1	1	....	1	1	....	....	2	....	..	..	..	..	..	..	..	..	..	..	..	1
66. Paralysis without specified cause	13	....	..	..	..	..	..	..	..	....	..	1	2	3	6	1	..	7	6	....	6	6	1	2	11	....	1	3	1	2	..	1	4	..	..	..	..	1
68. Other forms of mental alienation	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
69. Epilepsy	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	..	1	..	..
70. Convulsions (non-puerperal)	3	....	..	..	..	..	..	..	..	1	1	..	1	..	..	..	..	1	2	....	1	1	1	1	1	1	..	..	1	..	..	..	..	1	..	..	..	1
71. Convulsions of infants	18	12	2	1	3	..	..	..	..	....	..	..	....	..	..	..	..	13	5	....	18	....	....	18	....	....	1	2	1	2	2	..	1	..	1	3	1	1
73. Neuralgia and neuritis	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
76. Diseases of the ears	1	....	..	..	1	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	94	....	..	..	..	..	1	2	1	7	1	8	11	25	23	14	1	52	42	....	46	38	10	12	70	12	12	5	8	6	6	10	9	10	6	5	9	8
78. Acute endocarditis	8	....	..	..	..	..	..	1	..	2	..	..	2	3	..	..	..	5	3	....	4	3	1	1	6	1	1	1	..	1	..	2	1	1	..	..	..	1
79. Organic diseases of the heart	59	....	..	..	..	..	1	1	1	5	1	7	7	15	12	8	1	31	28	....	26	26	7	11	40	8	7	3	5	3	5	5	7	8	5	4	4	3
80. Angina pectoris	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..	1
81. Diseases of the Arteries, atheroma, aneurysm, etc.	26	....	..	..	..	..	..	..	..	....	..	1	1	7	11	6	..	16	10	....	15	9	2	....	23	3	4	1	3	2	1	3	1	1	1	1	5	3
IV.—Diseases of the Respiratory System.																																						
Group Total	67	12	4	1	2	..	1	..	3	4	3	4	4	8	16	5	..	34	33	....	47	15	7	29	33	5	6	13	10	8	9	2	1	..	1	7	5	5
89. Acute bronchitis	3	1	1	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	2	....	3	....	....	2	1	....	..	1	..	..	1	..	..	..	..	1	..	..
90. Chronic bronchitis	17	3	..	..	..	..	..	..	..	1	1	..	....	4	6	2	..	9	8	....	10	5	2	5	11	1	..	5	3	2	..	1	..	..	1	2	1	2
91. Broncho-pneumonia	7	3	1	..	..	..	..	..	..	....	..	..	....	1	1	1	..	4	3	....	6	1	....	4	3	....	1	..	1	2	1	..	..	..	..	1	1	..
92. Pneumonia	32	5	2	1	1	..	1	..	3	1	2	2	4	1	7	2	..	16	16	....	23	6	3	15	14	3	4	5	5	4	7	1	1	..	..	1	1	3
93. Pleurisy	2	....	..	..	1	..	..	..	..	1	..	..	....	..	..	..	..	1	1	....	1	....	1	2	....	....	1	..	1	..	..	..	..	..	..	..	..	..
94. Pulmonary congestion, pulmonary apoplexy	2	....	..	..	..	..	..	..	..	....	..	1	....	..	1	..	..	1	1	....	2	2	....	2	1	1	1	..	1	..	..	..	..	..	..	..	1	..
96. Asthma	4	....	..	..	..	..	..	..	..	1	..	1	....	1	1	..	..	2	2	....	2	1	1	1	3	....	..	1	..	..	..	..	..	..	..	2	1	..
V.—Diseases of the Digestive System.																																						
Group Total	41	6	..	..	1	..	1	2	3	4	5	6	2	6	3	2	..	21	20	....	31	6	4	20	19	2	4	2	3	5	2	2	4	2	3	5	4	5
100. Diseases of the pharynx	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
102. Ulcer of the stomach	2	....	..	..	..	..	1	..	..	....	..	..	....	1	..	..	..	2	....	....	2	....	....	1	1	....	..	..	2	..	..	..	..	..	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	4	....	..	..	1	..	..	..	..	....	..	2	....	1	..	..	..	2	2	....	2	2	....	2	2	....	..	1	..	..	..	..	..	..	1	1	..	1
104. Diarrhœa and enteritis (under 2 years)	5	5	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	3	....	5	....	....	5	....	....	..	..	..	..	..	..	1	..	1	2	..	1	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
154. XII.—Old Age.																																						
Group Total	83	....	..	..	..	..	..	..	..	....	..	..	....	..	30	53	..	48	35	....	31	40	12	5	68	10	7	4	11	8	4	8	9	6	2	5	9	10
XIII.—Affections Produced by External Causes.																																						
Group Total	25	....	1	1	..	..	1	1	2	4	5	3	2	1	2	2	..	20	5	....	15	6	4	9	13	3	2	1	..	1	3	3	3	3	2	4	2	1
157. Suicide by hanging or strangulation	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
167. Burns (conflagration excepted)	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
168. Absorption of deleterious gases (conflagration excepted)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	....	1	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
169. Accidental drowning	4	....	..	1	..	..	..	1	..	1	..	1	....	..	..	..	..	4	....	....	3	1	....	3	1	....	..	..	..	..	1	1	..	1	..	..	1	..
170. Traumatism by firearms	2	....	..	..	..	..	..	..	1	....	..	..	1	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	..	..	1	1	..	..	..	..
172. Traumatism by fall	2	....	..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	2	....	....	1	1	....	....	1	1	1	..	..	..	..	..	..	..	..	1	..
174. Traumatism by machines	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	3	....	1	..	..	..	..	..	..	1	..	..	....	..	1	..	..	2	1	....	3	....	....	1	1	1	..	..	..	..	..	..	..	..	1	..	1	1
177. Starvation	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
181. Electricity (lightning excepted)	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..
185. Fractures (cause not specified)	4	....	..	..	..	..	..	..	1	1	1	..	....	..	1	..	..	4	....	....	1	....	3	2	1	1	..	1	..	1	..	1	..	1	..	1	..	..
186. Other external violence	4	....	..	..	..	..	..	..	..	1	2	..	....	..	1	..	..	4	....	....	1	2	1	1	3	....	..	..	..	..	..	2	..	1	..	1	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	6	....	..	..	..	..	..	..	..	....	1	2	3	..	..	..	..	3	3	....	4	1	1	3	3	....	..	..	2	2	..	..	1	..	..	..	..	1
188. Sudden death	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
189. Cause of death not specified or ill-defined	5	....	..	..	..	..	..	..	..	....	1	2	2	..	..	..	..	3	2	....	3	1	1	3	2	....	..	..	2	2	..	..	1	..	..	..	..	..
Still-Births.																																						
Not included in totals	47	47	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	22	23	2	47	....	....	47	....	....	6	2	5	3	6	4	1	3	4	2	3	8

CAUSES OF DEATH IN THE COUNTY OF WELLAND, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	499	89	14	5	3	4	12	1	16	32	28	34	50	73	85	50	3	283	215	1	334	124	41	198	249	52	49	39	68	38	32	45	38	38	54	37	34	27
I.—General Diseases.																																						
Group Total	102	7	4	..	1	2	2	1	6	13	6	16	15	18	10	..	1	61	41	....	66	27	9	40	48	14	12	7	14	5	9	10	7	5	8	11	8	6
1. Typhoid fever	10	....	..	..	..	..	..	..	1	3	2	2	....	2	..	..	..	6	4	....	5	5	....	3	6	1	2	..	..	..	1	1	1	..	..	2	1	1
7. Scarlet fever	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..	..
8. Whooping cough	7	3	3	..	..	1	..	..	..	..	..	..	..	..	..	..	..	4	3	....	7	....	....	7	....	....	1	2	3	..	1	..	..	..	..	..	..	..
9. Diphtheria and croup	3	....	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	3	....	....	2	1	....	3	....	....	1	1	..	..	..	..	..	..	1	..	..	..	..
14. Dysentery	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	....	....	1	....	....	....	1	....	....	....	..	..	..	1	..	..	..	..	..	..
24. Tetanus	1	....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	....	....	1	....	....	1	....	....	....	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	28	1	..	..	..	..	..	1	3	8	1	5	3	4	2	..	..	17	11	....	17	9	2	11	13	8	3	..	3	2	3	3	1	..	4	2	3	2
29. Acute miliary tuberculosis	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
30. Tuberculous meningitis	2	1	..	..	..	..	..	..	..	1	..	..	....	1	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	..	..	..	2	..	..	..	..
31. Abdominal tuberculosis	1	....	..	..	..	..	..	..	..	....	1	..	..	..	..	..	..	1	....	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
33. White swelling	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
34. Tuberculosis of other organs	1	....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
36. Rickets	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	5	....	..	..	..	..	..	..	..	....	..	1	1	1	1	..	1	5	....	....	1	3	1	1	1	3	1	..	..	1	2	..	..	..	..	1	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	....	1	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	....	....	1	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	12	....	..	..	..	..	..	..	..	....	..	1	5	2	4	..	..	5	7	....	6	2	4	....	9	3	..	1	2	..	1	2	1	..	..	2	1	2
48. Chronic rheumatism and gout	3	....	..	..	..	..	..	1	..	....	..	..	....	1	1	..	..	2	1	....	2	1	....	1	1	1	..	..	1	..	..	..	..	1	1	..	..	..
50. Diabetes	5	....	..	..	..	..	1	..	..	..	..	1	3	..	..	..	..	3	2	....	4	1	....	3	2	....	..	..	..	..	..	..	2	1	..	..	1	1
51. Exophthalmic goitre	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	..	..	..	..	..	2	..	..
52. Addison's disease	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....
53. Leucæmia	2	....	..	..	..	1	..	..	..	....	..	..	1	..	..	..	..	....	2	....	2	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	10	....	..	..	..	..	..	..	1	....	..	2	1	5	1	..	..	5	5	....	10	....	....	3	6	1	..	2	2	1	1	1	1	..	..	1	1	..
56. Alcoholism (acute or chronic)	2	....	..	..	..	..	..	..	..	....	1	1	....	..	..	..	..	2	....	....	1	1	....	1	1	....	..	..	1	..	..	..	1	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	59	14	..	1	1	..	4	..	2	2	..	2	8	11	7	6	1	25	34	....	45	12	2	26	29	4	4	6	10	4	3	4	9	7	6	2	2	2
61. Simple meningitis	3	1	..	..	..	..	..	..	2	....	..	..	....	..	..	..	..	1	2	....	3	....	....	3	....	....	..	..	..	..	..	..	..	1	1	..	1	..
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
63. Other diseases of the spinal cord	7	1	..	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	7	....	6	1	....	6	....	1	..	..	..	..	..	1	1	2	2	..	..	1
64. Cerebral hæmorrhage, apoplexy	21	....	..	..	..	..	..	..	..	..	..	..	6	8	6	3	1	10	14	....	14	9	1	1	22	1	1	2	5	2	2	1	6	3	1	1	..	..
66. Paralysis without specified cause	7	....	..	..	..	..	..	..	1	..	..	..	2	1	1	2	..	3	1	....	7	....	....	1	6	....	..	1	..	2	..	1	..	2	..	1	..	..
69. Epilepsy	2	....	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	....	2	....	....	2	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..
70. Convulsions (non-puerperal)	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
71. Convulsions of infants	12	12	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	4	....	12	....	....	12	....	....	2	1	4	..	1	2	1	..	..	..	..
74. Other diseases of the nervous system	2	....	..	..	..	..	..	..	..	..	..	1	....	1	..	..	..	1	1	....	1	....	1	....	1	1	1	..	..	..	..	..	..	..	1	..	..	1
III.—Diseases of the Circulatory System.																																					
Group Total	81	....	..	1	..	..	..	..	..	1	2	6	7	30	28	6	..	55	26	....	47	27	7	11	54	16	9	6	9	9	3	11	5	4	4	4	10	7
78. Acute endocarditis	5	....	..	..	..	..	..	..	..	..	..	..	1	2	2	..	..	3	2	....	....	3	2	....	1	4	..	2	1	..	1	1	..	..	..	..	..	..
79. Organic diseases of the heart	59	....	..	1	..	..	..	..	..	1	2	6	5	22	19	3	..	39	20	....	33	22	4	8	41	10	7	1	7	7	2	8	4	4	4	2	7	6
81. Diseases of the arteries, atheroma, aneurysm, etc.	16	....	..	..	..	..	..	..	..	..	..	..	1	6	7	2	..	12	4	....	13	2	1	3	11	2	2	3	1	2	..	2	1	..	..	2	3	..
85. Hæmorrhage; other diseases of the circulatory system	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
IV.—Diseases of the Respiratory System.																																					
Group Total	46	12	5	1	..	..	..	..	2	1	1	2	6	7	6	3	..	28	18	....	32	10	4	21	20	5	4	3	11	6	2	6	3	..	3	5	..	3
89. Acute bronchitis	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	....	2	....	....	2	....	....	1	..	..	1	..	..	..	..	..	..	..	..
90. Chronic bronchitis	8	3	..	..	..	..	..	..	..	..	..	1	....	1	1	2	..	3	5	....	5	1	2	3	4	1	1	..	3	..	1	2	..	..	..	..	..	..
91. Broncho-pneumonia	9	4	3	..	..	..	..	..	..	..	..	..	1	..	1	..	..	7	2	....	7	1	1	7	2	....	2	..	3	2	..	..	..	..	..	1	..	..
92. Pneumonia	20	3	2	1	..	..	..	..	2	....	1	1	3	4	2	1	..	11	9	....	12	7	1	8	9	3	..	3	4	2	1	3	2	..	..	1	..	1
93. Pleurisy	5	....	..	..	..	..	..	..	..	1	..	..	2	1	1	..	..	5	....	....	4	1	....	1	3	1	..	1	1	..	1	1	..	1	1	..	..	1
94. Pulmonary congestion, pulmonary apoplexy	1	....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
98. Other diseases of the respiratory system (tuberculosis excepted)	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
V.—Diseases of the Digestive System.																																					
Group Total	42	17	2	..	1	1	1	..	2	1	3	2	2	4	4	2	..	24	18	....	34	6	2	26	14	2	3	1	2	..	3	2	1	11	13	4	1	1
100. Diseases of the pharynx	2	....	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	2	....	....	1	1	....	2	....	....	1	1	..	..	..	..	..	..	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	5	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	....	5	....	....	5	....	....	1	..	..	..	..	..	..	..	..	..	..	..
104. Diarrhœa and enteritis (under 2 years)	14	12	2	..	..	..	..	..	..	..	..	1	....	1	..	..	..	10	1	....	14	....	....	14	....	....	..	..	..	..	..	..	1	1	..	1	1	..
105. Diarrhœa and enteritis (2 years and over)	2	....	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	1	1	....	1	1	....	1	1	....	..	..	..	..	..	..	1	..	6	7	..	..
108. Appendicitis and typhlitis	2	....	..	..	..	..	..	..	..	..	..	1	....	..	..	1	..	2	....	....	....	....	....	....	2	....	..	..	..	..	..	..	..	..	1	1	..	..
109. Hernias, intestinal obstructions	4	....	..	..	..	..	..	..	..	..	..	..	1	..	1	1	..	2	2	....	3	1	....	....	3	....	..	..	..	..	..	1	..	..	1	..	..	..
110. Diseases of the intestines	4	2	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	1	3	....	4	....	....	3	1	....	..	..	..	..	..	..	..	1	..	1	..	..
113. Cirrhosis of the liver	2	....	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	1	1	....	1	1	....	1	2	....	..	..	..	..	..	..	..	2	1	1	..	..
114. Biliary calculi	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	....	....	....	....	1	..	..	..	..	..	..	..	..	..	..	..	..
115. Other diseases of the liver	2	....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	1	....	....	1	....	1	..	..	..	..	..	1	..	..	..	..	..	..
117. Simple peritonitis (non-puerperal)	4	....	..	..	..	..	..	..	1	1	1	..	1	..	..	..	..	2	2	....	3	1	....	1	3	....	..	..	..	..	..	..	..	2	2	..	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																					
Group Total	17	....	..	..	..	..	..	..	..	..	2	1	6	2	6	..	..	12	5	....	10	4	3	....	16	1	1	3	..	1	2	..	4	1	1	2	1	1
119. Acute nephritis	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
120. Bright's disease	13	....	..	..	..	..	..	..	..	..	2	..	4	1	6	..	..	11	2	....	7	4	2	....	12	1	1	2	..	1	2	..	3	1	1	1	..	1
124. Diseases of the bladder	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	....	1	....	....	....	1	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
126. Diseases of the prostate	1	....	..	..	..	..	..	..	..	..	..	..	....	1	..	..	..	1	....	....	1	....	....	1	1	....	..	1	..	..	..	..	..	..	..	..	..	..
181. Cysts and other tumors of the ovary	1	....	..	..	..	..	..	..	..	..	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1. 0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	681	88	5	7	6	3	9	4	13	35	43	34	67	98	140	120	9	388	293	.....	438	200	43	211	430	40	77	67	66	64	51	54	45	56	50	46	50	55
I.—General Diseases.																																						
Group Total	162	8	..	3	2	..	3	2	5	18	11	13	26	32	30	6	3	92	70	....	117	37	8	54	99	9	17	19	13	13	13	14	10	15	13	12	9	14
1. Typhoid fever	2	....	..	..	..	..	..	..	1	....	..	..	1	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	1	..	..	..	..	..	..	..	..	..
6. Measles	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	1
7. Scarlet fever	3	....	..	..	..	..	1	1	..	1	..	..	....	..	..	..	..	1	2	....	3	....	....	3	....	....	1	1	..	..	1	..	..	..	..	..	..	..
8. Whooping cough	6	5	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	5	1	....	6	....	....	6	....	....	..	..	1	..	..	..	1	..	..	..	..	..
9. Diphtheria and croup	5	....	..	2	1	..	1	1	..	....	..	..	....	..	..	..	..	2	3	....	5	....	....	5	....	....	1	1	1	1	..	..	..	..	..	..	..	..
10. Influenza	10	1	..	..	..	..	..	..	..	....	1	..	1	2	4	1	..	4	6	....	3	6	1	....	9	1	3	3	1	2	..	..	..	..	..	1	..	..
14. Dysentery	2	1	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	1	....	2	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
18. Erysipelas	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
20. Purulent infection and septicæmia	2	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	37	....	..	..	..	..	..	..	3	16	3	7	1	1	2	..	1	25	12	....	32	3	2	19	16	2	4	2	3	4	6	1	1	4	3	4	4	1
34. Tuberculosis of other organs	2	....	..	..	..	..	1	..	..	....	..	..	1	..	..	..	..	2	....	....	2	....	....	1	1	....	1	..	..	..	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	3	....	..	..	..	..	..	..	..	....	..	..	....	1	2	..	..	1	2	....	3	....	....	....	3	....	..	..	1	1	....	..	..	..	1	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	21	....	..	..	..	..	..	..	..	....	1	1	8	6	4	1	..	10	11	....	17	4	....	3	18	....	..	1	..	4	3	3	3	1	1	1	4
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	13	....	..	..	..	..	..	..	..	....	..	..	1	5	6	..	1	9	4	....	7	6	....	3	9	1	4	1	..	..	..	3	..	..	1	2	1	1
42. Cancer and other malignant tumors of the female genital organs	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	....	2	....	2	....	....	....	2	....	..	1	..	..	..	..	..	..	..	..	..	1
43. Cancer and other malignant tumors of the breast	3	....	..	..	..	..	..	..	..	....	..	1	1	..	..	1	..	....	3	....	....	2	1	1	2	....	1	..	..	..	..	..	..	..	2	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	17	....	..	..	..	..	..	..	..	....	1	3	4	4	3	2	..	9	8	....	9	6	2	2	13	2	1	1	..	2	2	1	2	3	2	..	1	2
47. Acute articular rheumatism	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	4	....	..	..	..	..	..	..	..	....	..	..	....	1	2	1	..	1	3	....	1	3	....	....	4	....	..	..	1	..	..	..	..	..	..	..	..	..
50. Diabetes	4	....	..	..	1	..	..	..	..	....	..	..	....	1	2	..	..	2	2	....	2	1	1	1	2	1	..	..	..	..	..	..	..	2	..	..	..	1
51. Exophthalmic goitre	4	....	..	..	..	..	..	..	..	1	..	..	2	1	..	..	..	2	2	....	4	....	....	2	2	....	..	..	..	..	..	1	..	..	..	..	..	..
52. Addison's disease	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
53. Leucæmia	2	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	....	2	....	..	..	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	11	....	..	..	..	..	..	..	..	....	2	1	....	5	2	..	1	6	5	....	6	5	....	3	8	....	..	3	..	..	2	..	1	..	..	2	..	..
55. Other general diseases	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
56. Alcoholism (acute or chronic)	4	....	..	..	..	..	..	..	..	....	2	..	2	..	..	..	..	4	....	....	4	....	....	1	3	....	..	1	..	..	..	..	..	..	..	..	..	1

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
114. Biliary calculi	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..
115. Other diseases of the liver	3	..	..	..	..	..	..	..	..	..	..	..	..	2	..	1	..	3	..	..	1	1	1	..	2	1	..	..	..	..	..	..	2	..	1	..	..
117. Simple peritonitis (non-puerperal)	3	..	..	..	..	..	..	..	..	..	1	..	1	1	..	..	..	1	2	..	3	..	..	..	3	..	..	..	..	..	1	1	..	..	..	1	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																					
Group Total	26	..	..	..	..	..	..	..	..	1	5	1	5	6	8	..	..	18	8	..	18	7	1	4	21	1	2	..	5	2	1	4	2	2	..	..	7	1
119. Acute nephritis	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..
120. Bright's disease	19	..	..	..	..	..	..	..	..	1	4	1	4	5	4	..	..	13	6	..	14	5	..	2	16	1	1	..	4	1	1	2	2	1	..	..	6	1
122. Other diseases of the kidneys and adnexa	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..
124. Diseases of the bladder	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	1	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..
126. Diseases of the prostate	4	..	..	..	..	..	..	..	..	..	..	..	1	..	3	..	..	4	..	..	3	1	..	..	4	..	..	..	..	..	1	..	1	..	1	..	1	..
VII.—The Puerperal State.																																					
Group Total	10	..	..	..	..	..	..	..	..	3	6	1	..	..	..	..	..	..	10	..	9	1	..	..	10	..	1	2	1	1	..	2	..	..	1	2	..	..
134. Accidents of pregnancy	2	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	2	..	1	1	..	..	2	..	..	..	..	1	..	..	..	..	1	..	..
136. Other accidents of labor	6	..	..	..	..	..	..	..	..	1	4	1	..	..	..	..	..	..	6	..	6	..	..	..	6	..	1	1	1	..	..	2	..	..	1	..	..
137. Puerperal septicæmia	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
138. Puerperal albuminuria and convulsions	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..
VIII.—Diseases of the Skin and of the Cellular Tissue.																																					
Group Total	5	..	..	..	..	..	..	..	..	..	1	..	2	..	1	1	..	3	2	..	3	2	..	..	5	..	..	1	1	..	..	1	..	..	..	..	2	..
142. Gangrene	2	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	2	..	..	1	1	..	..	2	..	..	..	..	..	..	1	..	..	..	..	1	..
144. Acute abscess	3	..	..	..	..	..	..	..	..	..	1	..	1	..	1	..	..	1	2	..	2	1	..	..	3	..	..	1	1	..	..	..	..	..	..	..	1	..
IX.—Diseases of the Bones and of the Organs of Locomotion																																					
Group Total	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..
146. Diseases of the bones (tuberculosis excepted)	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..
X.—Malformations.																																					
Group Total	6	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	..	6	..	..	..	6	..	..	1	1	..	..	..	..	..	2	1	..	1
150. Congenital malformations (still-births not included)	6	6	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	6	..	6	..	..	..	6	..	..	1	1	..	..	..	..	..	2	1	..	1
XI.—Diseases of Early Infancy.																																					
Group Total	48	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	28	20	..	48	..	..	48	..	..	6	4	3	3	6	4	6	3	6	2	1	4
151. Congenital debility, icterus, and sclerema	48	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	28	20	..	48	..	..	48	..	..	6	4	3	3	6	4	6	3	6	2	1	4

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.										
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	1,654	366	66	24	17	9	35	13	35	103	116	129	166	192	226	144	13	863	790	1	1,057	487	110	751	853	50	150	119	147	142	127	91	112	179	155	164	138	130
I.—General Diseases.																																						
Group Total	375	32	16	13	7	3	10	8	19	39	10	14	49	53	32	7	3	185	190	....	252	103	20	170	196	9	33	24	32	35	41	25	25	46	30	34	24	26
1. Typhoid fever	13	....	1	..	..	..	1	1	4	3	..	3	....	..	..	..	..	9	4	....	9	4	....	9	2	2	1	1	..	1	..	..	2	2	2	3	1	..
6. Measles	13	3	6	1	2	..	1	..	..	..	..	..	..	..	..	..	..	8	5	....	13	....	....	13	....	....	2	..	1	1	4	4	..	2	..	..	..	..	..
7. Scarlet fever	6	....	1	1	1	..	1	2	..	..	..	..	..	..	..	..	..	4	2	....	6	....	....	6	....	....	1	1	1	1	1	..	..	..	..	..	..	1
8. Whooping cough	25	18	3	2	1	..	..	..	..	..	..	..	1	..	..	..	..	12	13	....	25	....	....	25	....	....	6	2	2	1	3	2	4	..	4	..	..	..	..
9. Diphtheria and croup	13	....	..	4	1	2	2	1	..	..	..	2	..	..	..	..	..	11	2	....	12	1	....	12	1	....	1	..	1	1	2	1	2	1	..	1	1	..
10. Influenza	8	1	..	..	..	..	..	..	..	1	..	1	1	..	2	2	..	4	4	....	6	....	2	3	5	....	2	1	1	2	1	..	..	..	..	..	..	1
13. Cholera nostras	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
14. Dysentery	15	4	1	3	2	..	..	..	2	....	1	..	....	2	..	..	..	5	10	....	15	....	....	11	4	....	..	..	..	..	..	..	6	6	2	1	..
18. Erysipelas	2	....	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	....	2	....	2	....	....	1	1	....	..	..	..	1	..	..	..	..	1	..	..	..
20. Purulent infection and septicæmia	8	..	..	..	..	..	..	..	..	1	3	1	2	1	..	..	..	5	3	....	6	1	1	4	4	....	1	1	..	2	1	..	..	..	1	1	1
24. Tetanus	1	....	..	..	..	..	..	..	..	..	..	1	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	91	1	1	..	..	..	2	1	7	30	17	17	9	4	2	..	..	52	39	....	58	31	2	45	41	2	5	3	9	9	10	6	7	9	10	7	7	9
30. Tuberculous meningitis	8	3	1	2	..	..	..	1	..	....	1	..	....	..	..	..	..	6	2	....	8	....	....	7	1	....	1	1	1	..	..	..	..	3	1	..	1	..
31. Abdominal tuberculosis	7	....	1	..	..	..	..	..	..	1	2	..	3	..	..	..	..	2	5	....	3	3	1	3	4	....	..	..	..	..	..	..	..	3	..	..	..	..
32. Pott's disease	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..	..
34. Tuberculosis of other organs	5	1	..	..	..	..	..	2	1	..	..	..	1	..	..	..	..	3	2	....	2	3	....	3	2	....	..	..	..	..	2	1	..	1	..	1	..	..
37. Syphilis	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	9	....	..	..	..	..	..	..	..	....	..	2	1	3	3	..	..	7	2	....	4	4	1	1	8	....	..	1	2	1	1	1	..	..	2	1	..	..
40. Cancer and other malignant tumors of the stomach, liver	30	....	..	..	..	..	..	..	..	1	..	2	6	12	8	1	..	19	11	....	13	15	2	1	28	1	3	2	5	..	2	2	2	2	2	4	3	3
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	16	....	..	..	..	..	..	..	..	....	..	1	4	9	1	1	..	7	9	....	9	6	1	....	15	1	1	1	1	2	3	2	2	..	1	1	1	1
42. Cancer and other malignant tumors of the female genital organs	11	....	..	..	..	..	..	..	..	....	1	4	4	1	..	1	..	....	11	....	7	2	2	....	10	1	3	1	1	2	..	1	1	1	..	1	..	..
43. Cancer and other malignant tumors of the breast	2	....	..	..	..	..	..	..	..	....	..	2	....	..	..	..	..	....	2	....	2	....	....	1	1	....	..	1	..	1	..	..	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	22	....	..	..	..	..	..	..	1	....	2	..	7	5	6	1	..	6	16	....	11	10	1	5	15	2	1	2	1	3	3	2	3	3	1	1	..	2
47. Acute articular rheumatism	4	....	..	..	..	..	..	2	1	....	..	1	....	..	..	..	..	1	3	....	4	....	....	3	1	....	..	..	..	1	..	..	..	..	1	1	..	..
48. Chronic rheumatism and gout	5	....	..	..	..	..	..	..	..	....	..	1	....	2	1	1	..	2	3	....	2	3	....	1	4	....	..	..	..	2	..	1	..	..	..	..	..	..
50. Diabetes	18	....	..	..	..	2	..	..	1	....	4	1	1	6	3	..	..	11	7	....	13	4	1	3	15	....	2	3	1	..	1	2	1	1	2	2	..	..
51. Exophthalmic goitre	6	....	..	..	..	..	..	..	1	1	1	1	1	..	..	..	..	....	6	....	5	....	1	2	4	....	..	..	..	..	..	..	..	..	2	1	..	..
52. Addison's disease	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
V.—Diseases of the Digestive System.																																						
Group Total	**171**	91	13	6	..	1	5	..	3	2	13	7	9	11	7	3	..	92	79	....	146	19	6	126	42	3	5	6	8	3	4	4	12	44	44	20	12	9
102. Ulcer of the stomach	5	2	..	..	..	..	..	..	..	....	..	..	1	1	1	..	..	4	1	....	3	1	1	2	2	1	..	..	..	..	1	..	..	1	2	..	1	..
103. Other diseases of the stomach (cancer excepted)	11	7	1	..	..	..	..	..	..	....	..	1	....	1	1	..	..	4	7	....	9	2	....	8	3	....	..	1	2	1	..	..	..	..	1	3	1	2
104. Diarrhœa and enteritis (under 2 years)	91	79	12	..	..	..	..	..	..	....	..	..	....	..	..	..	..	52	39	....	89	2	....	91	....	....	..	1	1	..	..	1	8	32	32	12	3	1
105. Diarrhœa and enteritis (2 years and over)	17	....	..	6	..	1	4	..	..	....	2	..	....	3	1	..	..	8	9	....	14	3	....	12	5	....	..	..	..	..	1	1	1	5	6	1	2	..
108. Appendicitis and typhlitis	15	....	..	..	..	..	1	..	3	1	4	1	2	1	1	1	..	9	6	....	11	3	1	7	8	....	1	2	3	..	1	..	1	2	2	..	..	3
109. Hernias, intestinal obstructions	8	1	..	..	..	..	..	..	..	....	1	2	1	2	..	1	..	3	5	....	5	2	1	1	6	1	..	1	1	..	..	..	1	1	..	1	2	1
110. Diseases of the intestines	4	2	..	..	..	..	..	..	..	....	..	..	1	..	1	..	..	2	2	....	3	....	1	3	1	....	2	..	..	..	..	..	..	..	..	1	..	1
112. Hydatid tumor of the liver	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	....	1	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
113. Cirrhosis of the liver	6	....	..	..	..	..	..	..	..	....	1	2	1	1	..	1	..	4	2	....	4	2	....	....	5	1	..	1	1	..	..	2	1	..	..	..	1	..
115. Other diseases of the liver	3	....	..	..	..	..	..	..	..	....	..	1	1	..	1	..	..	3	....	....	2	1	....	....	3	....	1	..	..	..	..	..	..	..	..	..	2	..
117. Simple peritonitis (non-puerperal)	9	....	..	..	..	..	..	..	..	1	4	..	1	2	1	..	..	3	6	....	5	2	2	1	8	....	1	..	..	2	1	..	..	2	1	2	..	..
118. Other diseases of the digestive system (cancer and tuberculosis excepted)	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	**66**	1	..	..	..	..	1	..	..	4	6	10	12	12	16	4	..	38	28	....	36	24	6	11	53	2	3	11	2	7	..	4	4	4	6	12	10	3
119. Acute nephritis	3	1	..	..	..	..	1	..	..	....	1	..	....	..	..	..	..	1	2	....	2	....	1	2	1	....	..	..	..	..	..	..	..	..	2	1	..	..
120. Bright's disease	44	....	..	..	..	..	..	..	..	2	3	7	9	10	10	3	..	23	21	....	26	14	4	5	37	2	..	9	..	5	..	4	2	3	1	8	9	3
122. Other diseases of the kidneys and adnexa	7	....	..	..	..	..	..	..	..	2	1	1	1	1	1	..	..	5	2	....	3	3	1	4	3	....	..	1	1	1	..	..	1	1	1	1	..	..
124. Diseases of the bladder	4	....	..	..	..	..	..	..	..	....	..	1	1	..	2	..	..	3	1	....	....	4	....	....	4	....	1	..	1	..	..	..	..	1	..	1	..	..	..
126. Diseases of the prostate	6	....	..	..	..	..	..	..	..	....	..	..	1	1	3	1	..	6	....	....	3	3	....	....	6	....	1	1	..	1	..	..	..	..	1	1	1	..
130. Other diseases of the uterus	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
131. Cysts and other tumors of the ovary	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
VII.—The Puerperal State.																																						
Group Total	**30**	....	..	..	..	..	..	..	1	12	14	3	....	..	..	..	..	....	30	....	11	14	5	....	29	1	3	2	3	1	2	1	3	5	6	..	1	3
134. Accidents of pregnancy	5	....	..	..	..	..	..	..	1	2	2	..	....	..	..	..	..	....	5	....	3	1	1	....	5	....	2	..	1	1	..	..	1	..	..	..	..	..
135. Puerperal hæmorrhage	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
136. Other accidents of labor	7	....	..	..	..	..	..	..	..	4	1	2	....	..	..	..	..	....	7	....	3	1	3	....	6	1	1	..	..	..	1	..	1	2	2	..	..	..
137. Puerperal septicæmia	14	....	..	..	..	..	..	..	..	4	9	1	....	..	..	..	..	....	14	....	4	9	1	....	14	....	..	2	1	..	1	1	1	3	3	..	1	1
138. Puerperal albuminuria and convulsions	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	....	2	....	....	2	....	....	2	....	..	..	1	..	..	..	..	..	..	..	..	1
139. Puerperal phlegmasia alba dolens, embolus, sudden death	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	**12**	1	1	..	..	..	..	1	..	2	..	1	....	..	2	4	..	8	4	....	7	5	....	3	8	1	1	..	1	1	2	1	..	1	1	1	2	1
142. Gangrene	7	....	..	..	..	..	..	..	..	....	..	1	....	..	2	4	..	4	3	....	3	4	....	....	7	....	..	..	..	..	1	1	..	1	1	1	2	..
144. Acute abscess	5	1	1	..	..	..	..	1	..	2	..	..	....	..	..	..	..	4	1	....	4	1	....	3	1	1	1	..	1	1	1	1	..	..	..	..	..	1

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CAUSES OF DEATH IN THE COUNTY OF YORK, 1912.

OFFICIAL ENGLISH TRANSLATION.
DISEASES AND CAUSES OF DEATH.

	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		0-1	Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	6545	1720	238	93	65	44	136	84	154	488	521	530	563	669	774	439	27	3490	3052	3	4156	1989	400	3313	2856	376	585	551	662	610	545	443	547	542	508	502	476	574
I.—General Diseases.																																						
Group Total	1606	134	66	33	32	21	78	47	70	212	216	196	191	160	116	19	15	804	802	...	998	499	109	776	738	102	175	133	160	149	153	133	99	125	106	124	121	138
1. Typhoid fever	61	...	..	..	..	..	..	3	6	19	17	10	3	1	2	..	..	47	14	....	22	34	5	30	28	3	5	6	4	2	3	4	1	6	8	9	9	4
6. Measles	22	7	5	2	..	3	1	..	1	....	..	1	....	..	..	..	..	11	11	....	20	2	....	22	..	..	..	2	2	..	..	1	1	4	1	2	..	1	3
7. Scarlet fever	50	4	6	8	6	4	11	5	1	1	4	..	..	..	..	..	..	22	28	....	41	9	....	47	2	1	2	2	6	6	14	8	1	3	2	1	..	1	4
8. Whooping cough	91	58	24	1	5	1	1	1	..	....	..	..	..	..	..	..	..	40	51	....	91	..	....	91	..	....	2	2	2	6	13	15	11	10	15	13	..	..	4
9. Diphtheria and croup	151	24	12	15	16	12	44	13	11	3	..	1	..	..	..	..	..	71	77	....	130	21	....	147	2	2	2	14	12	17	18	11	4	8	3	10	11	14
10. Influenza	44	1	4	..	..	..	..	..	1	3	3	2	2	5	7	18	1	18	26	....	26	17	1	12	30	2	7	9	12	7	3	..	1	..	..	1	1	3
14. Dysentery	23	7	1	1	..	..	5	1	..	2	1	1	..	1	2	1	..	13	10	....	16	7	....	16	7	....	..	..	..	2	..	2	1	2	1	7	6	6	2
18. Erysipelas	14	3	..	..	..	..	..	..	..	1	2	2	4	1	..	1	..	6	8	....	9	5	....	4	10	....	4	..	..	..	2	2	1	2	1	2	..	..	..
19. Other epidemic diseases	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	..	....	1	..	....	1	..	....	..	..	..	1	..	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	39	8	1	1	..	..	2	1	2	8	4	3	4	2	3	..	..	34	15	....	32	10	2	29	8	2	2	3	..	2	3	2	1	4	..	..	4	3
24. Tetanus	3	....	..	..	..	1	..	1	..	1	..	..	..	..	..	..	..	2	1	....	2	1	....	2	1	....	..	..	..	1	..	..	..	1	..	..	1	..	..
25. Mycoses	1	....	..	..	..	..	..	..	..	....	..	..	..	..	1	..	..	..	1	....	1	..	....	..	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..
28. Tuberculosis of the lungs	126	1	2	3	..	1	1	5	30	124	109	63	36	20	8	..	13	236	190	....	248	129	49	175	215	36	51	37	47	49	36	32	19	33	22	32	33	35
29. Acute miliary tuberculosis	10	1	..	..	..	2	..	..	1	4	..	1	..	1	..	..	..	6	4	....	1	4	2	6	1	....	4	..	1	1	..	1	2	..	..	..	..	1	..
30. Tuberculous meningitis	36	6	4	2	2	1	4	7	4	5	2	..	1	..	..	..	..	22	14	....	26	10	....	32	3	1	4	2	4	3	4	1	6	4	2	3	3	..
31. Abdominal tuberculosis	17	1	..	..	..	..	..	..	1	5	3	2	1	1	..	..	..	7	10	....	11	5	1	8	9	....	4	..	1	1	3	2	1	1	..	..	3	1
34. Tuberculosis of other organs	7	....	..	..	..	..	..	..	1	..	1	..	2	1	1	1	..	3	4	....	6	....	1	4	3	....	..	1	..	..	1	1	1	..	..	1	1	1
36. Rickets	6	3	3	..	..	..	..	..	..	....	..	..	..	..	..	..	..	4	2	....	6	....	....	6	....	....	2	..	..	..	1	1	..	..	1	..	1	..
37. Syphilis	9	4	2	..	..	..	..	..	..	1	..	1	..	..	1	..	..	5	4	....	8	1	....	8	1	....	2	..	..	..	1	1	..	1	1	..	..	..	1
39. Cancer and other malignant tumors of the buccal cavity	41	....	..	..	..	..	1	..	2	2	1	4	10	13	6	2	..	32	9	....	20	17	4	11	24	6	1	5	6	5	1	1	6	5	2	2	4	3
40. Cancer and other malignant tumors of the stomach, liver	83	....	..	..	..	..	..	..	..	1	3	18	17	29	14	1	..	42	41	....	37	44	2	10	62	11	9	7	4	5	7	8	3	8	12	6	3	11
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	48	....	..	..	..	..	..	..	..	1	4	6	15	12	7	2	1	20	28	....	19	26	3	7	39	2	3	2	6	2	2	6	3	4	5	3	6	6
42. Cancer and other malignant tumors of the female genital organs	55	....	..	..	..	..	..	..	..	2	2	7	24	8	5	..	..	....	55	....	28	20	7	1	53	1	3	4	6	3	5	5	4	7	1	7	4	6
43. Cancer and other malignant tumors of the breast	26	....	..	..	..	..	..	..	..	....	3	3	7	8	4	..	1	....	26	....	13	10	3	4	19	3	..	1	5	1	4	1	3	1	2	4	2	2
44. Cancer and other malignant tumors of the skin	2	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	....	2	....	....	2	....	....	1	1	..	..	..	1	..	..	..	..	..	1	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	104	....	2	..	..	..	..	..	1	7	6	17	18	23	21	9	..	46	58	....	53	12	9	23	74	7	6	5	8	4	10	13	10	4	11	9	12	12
46. Other tumors (tumors of the female genital organs excepted)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	....	1	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
95. Cancrene of the lung	6	....	..	..	..	1	..	..	..	....	1	2	....	1	1	..	..	3	3	....	1	5	....	2	4	....	..	..	..	..	2	..	1	....	..	..	1	2
96. Asthma	22	....	1	..	..	..	1	..	..	2	1	1	1	7	6	2	..	14	8	....	13	7	2	5	16	1	2	..	..	2	3	2	..	..	3	5	3	2
97. Pulmonary emphysema	2	....	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	2	....	....	....	2	....	....	2	....	....	....	..	..	..	..	..	..	..	..	1	..	1
98. Other diseases of the respiratory system (tuberculosis excepted)	2	....	..	..	..	..	..	..	..	....	2	..	....	..	..	..	..	1	1	....	2	....	....	....	2	....	....	....	..	..	..	..	2	....	..	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	772	442	57	8	7	4	12	6	12	25	38	38	37	39	36	10	1	439	333	....	643	112	17	604	155	13	37	41	54	49	41	31	108	140	116	75	48	32
99. Diseases of the mouth and adnexa	3	2	..	..	..	1	..	..	..	....	..	..	..	..	..	..	..	2	1	....	3	....	....	3	....	....	....	..	..	1	..	..	..	2	....	..	..	..
100. Diseases of the pharynx	11	2	1	..	..	..	2	1	1	1	1	..	1	..	1	..	..	7	4	....	8	3	....	9	2	....	1	2	2	3	1	1	..	..	..	..	1	..
102. Ulcer of the stomach	24	3	..	..	..	..	..	..	..	1	1	6	4	5	1	..	..	14	10	....	13	6	5	11	12	1	1	2	2	3	1	3	1	3	4	1	..	3
103. Other diseases of the stomach (cancer excepted)	99	64	3	1	..	1	2	..	1	....	1	3	6	10	6	1	..	57	42	....	81	15	3	75	21	3	4	8	5	8	8	4	13	6	15	15	8	5
104. Diarrhœa and enteritis (under 2 years)	388	340	48	..	..	..	..	..	..	..	..	..	..	..	..	..	..	219	169	....	338	....	....	388	....	....	10	10	26	19	14	7	65	97	72	36	25	7
105. Diarrhœa and enteritis (2 years and over)	39	....	..	4	5	2	4	..	..	1	5	4	2	4	5	3	..	20	1	....	28	10	1	24	14	1	..	1	2	1	..	1	8	10	9	5	2	..
108. Appendicitis and typhlitis	51	....	1	..	..	..	2	..	6	16	6	7	4	1	4	1	..	31	20	....	34	17	....	32	16	3	6	5	6	6	5	4	5	1	1	2	3	7
109. Hernia, intestinal obstructions	48	..	..	..	..	..	1	..	3	3	8	3	5	6	8	2	..	27	21	....	25	22	1	15	31	2	5	6	4	2	2	1	5	5	5	7	3	3
110. Diseases of the intestines	41	21	4	2	1	..	1	..	..	....	4	2	2	..	3	1	..	24	17	....	37	4	....	30	11	....	4	2	3	2	1	2	4	8	5	5	2	3
113. Cirrhosis of the liver	22	....	..	..	1	..	..	..	..	....	1	4	6	4	4	1	1	16	6	....	5	13	4	6	14	2	3	3	..	3	4	3	..	1	2	1	..	2
115. Other diseases of the liver	20	....	..	..	..	..	..	..	..	....	2	5	4	6	2	1	..	8	12	....	1	10	1	3	17	....	1	2	2	..	2	2	4	3	2	1	..	..
117. Simple peritonitis (non puerperal)	25	1	..	1	..	..	2	1	..	3	6	3	3	3	2	..	..	13	12	....	11	12	2	7	17	1	2	..	2	..	3	3	3	4	1	2	3	2
118. Other diseases of the digestive system (cancer and tuberculosis excepted)	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	243	5	1	2	1	..	2	3	3	16	20	33	52	52	41	11	1	133	110	....	114	109	20	50	171	22	26	21	21	34	19	18	16	15	9	20	20	24
119. Acute nephritis	34	5	1	1	..	..	1	3	2	5	6	6	1	3	..	..	..	18	16	....	24	6	4	18	13	3	3	2	4	8	1	5	1	1	2	2	1	4
120. Bright's disease	146	....	..	..	..	..	1	..	..	7	8	20	39	33	30	7	1	75	71	....	68	67	11	24	109	13	16	11	12	15	10	7	12	10	6	15	13	19
122. Other diseases of the kidneys and adnexa	14	....	..	..	..	..	..	..	..	1	3	2	5	3	..	..	..	9	5	....	4	9	1	2	12	....	2	2	1	..	1	3	1	2	..	..	2	..
123. Calculi of the urinary passages	6	....	..	..	1	..	..	..	..	....	..	1	1	2	1	..	..	5	1	....	2	4	....	....	6	....	..	..	..	4	1	..	1	..	..	..	..	..
124. Diseases of the bladder	15	....	..	..	..	..	..	..	..	....	1	..	6	3	4	1	..	10	5	....	4	10	1	1	13	1	3	3	..	2	..	1	1	..	..	1	3	1
125. Diseases of the urethra, urinary abscess, etc.	2	....	..	1	..	..	..	..	..	....	..	1	....	..	..	..	..	1	1	....	1	1	....	1	1	....	..	..	..	1	1	..	..	..	..	..	..	..
126. Diseases of the prostate	15	....	..	..	..	..	..	..	..	....	..	1	....	7	4	3	..	15	....	....	5	9	1	....	11	4	2	1	1	4	1	1	....	2	....	2	1	..
129. Uterin tumor (non-cancerous)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	....	..	....	1	....	1	....	....	....	1	....	....	....	..	..	..	1	....	....	....	..	..	..
130. Other diseases of the uterus	3	....	..	..	..	..	..	..	..	2	1	..	....	..	..	..	..	3	....	....	1	1	1	1	2	....	..	1	1	....	..	..	....	....	....	1	....	....
131. Cysts and other tumors of the ovary	5	....	..	..	..	..	..	..	..	1	1	1	....	1	1	....	..	5	....	....	2	2	1	2	2	1	..	1	1	..	..	3	....	....	....	....	....	....
132. Salpingitis and other diseases of the female genital organs	2	....	..	..	..	..	..	..	1	....	..	1	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	1	..	..	1	....	..	....	....	....	....
VII.—The Puerperal State.																																						
Group Total	100	....	..	..	..	..	..	..	9	36	46	9	....	..	..	..	..	....	100	....	50	41	9	6	90	4	7	13	6	9	8	8	11	5	6	4	12	11
134. Accidents of pregnancy	22	....	..	..	..	..	..	..	3	6	11	2	....	..	..	..	..	....	22	....	8	13	1	1	21	....	..	3	1	1	1	..	3	1	3	3	4	2
135. Puerperal hæmorrhage	6	....	..	..	..	..	..	..	..	1	3	2	....	..	..	..	..	6	....	....	4	2	....	....	6	....	..	1	..	..	1	..	..	..	..	..	3	..
136. Other accidents of labor	23	....	..	..	..	..	..	..	..	10	11	2	....	..	..	..	..	23	....	....	12	9	2	1	22	....	2	1	1	3	3	5	3	1	....	1	1	2
137. Puerperal septicæmia	35	....	..	..	..	..	..	..	6	13	15	1	....	..	..	..	..	34	....	....	18	13	3	4	28	3	4	4	4	5	3	2	2	1	1	..	3	6
138. Puerperal albuminuria and convulsions	11	....	..	..	..	..	..	..	..	4	6	1	....	..	..	..	..	14	....	....	5	4	2	....	11	....	1	4	..	..	..	..	2	1	1	..	1	1
139. Puerperal phlegmasia alba dolens, embolus, sudden death	3	....	..	..	..	..	..	..	..	2	..	1	....	..	..	..	..	3	....	....	2	....	1	....	2	1	..	..	..	..	..	..	..	..	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
171. Traumatism by cutting or piercing instruments.	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	1	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..
172. Traumatism by fall	22	1	1	..	..	..	..	..	3	3	2	2	3	1	2	4	..	16	6	..	12	10	..	8	14	..	3	..	1	..	5	1	4	1	1	3	2	1
174. Traumatism by machines	3	..	..	..	..	..	..	..	..	..	2	..	..	1	..	..	..	3	..	.	1	2	..	..	3	..	..	..	1	1	1	..	..	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	48	..	1	..	2	2	3	1	2	10	13	2	4	4	1	3	..	40	8	..	23	19	6	22	18	8	2	5	..	5	8	6	4	6	1	3	5	3
176. Injuries by animals	2	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	2	..	..	1	1	..	..	2	..	..	..	..	1	1	..	..	..	..	..	..	..
178. Excessive cold	2	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	2	..	..	1	1	..	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..
179. Effects of heat	2	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	2	..	..	2	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	1	..
181. Electricity (lightning excepted)	10	..	..	..	..	..	1	..	..	7	..	1	1	..	..	..	..	10	..	..	8	2	..	6	4	..	1	..	2	1	3	..	..	1	1	1	..	..
183. Homicide by cutting or piercing instruments	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	1	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..
184. Homicide by other means	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
185. Fractures (cause not specified)	51	..	1	1	1	..	..	1	1	5	10	8	5	7	7	4	..	34	17	..	17	27	7	13	32	6	2	3	4	6	8	4	8	5	3	2	2	4
186. Other external violence	55	1	..	..	..	..	3	2	2	8	10	12	6	8	2	1	..	43	12	..	25	22	8	22	28	5	3	4	2	8	2	3	9	4	6	5	4	5
XIV.—Ill-Defined Diseases.																																						
Group Total	73	7	9	1	..	..	4	..	..	8	10	10	11	9	..	1	3	39	34	..	47	17	9	33	30	10	5	8	7	8	2	2	8	3	8	7	5	10
188. Sudden death	4	2	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	2	2	..	3	1	..	4	..	..	..	..	..	..	..	..	..	..	1	3	..	..
189. Cause of death not specified or ill-defined	69	5	9	1	..	..	4	..	..	8	9	10	11	8	..	1	3	37	32	..	44	16	9	29	30	10	5	8	7	8	2	2	8	3	7	4	5	10
Still-Births.																																						
Not included in totals	667	667	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	409	250	8	667	..	..	667	..	..	58	45	57	60	52	69	49	59	52	58	59	49

CAUSES OF DEATH IN THE CITY OF BELLEVILLE, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	154	32	3	1	1	1	1	1	10	12	5	11	18	14	28	16	.....	97	57	.....	117	37	.....	71	81	2	18	13	10	15	9	11	14	14	10	12	14	5
I.—General Diseases.																																						
Group Total	36	4	..	..	1	..	..	..	6	2	4	6	11	..	2	..	..	21	15	....	29	7	....	19	17	....	7	3	5	3	2	4	1	2	2	3	2	2
1. Typhoid fever	4	....	..	..	..	..	..	..	2	1	..	1	....	..	..	..	..	1	3	....	3	1	....	2	2	....	2	..	1	..	..	..	..	..	1	..	..	..
7. Scarlet fever	2	1	..	..	1	..	..	..	....	..	..	..	....	..	..	..	..	....	2	....	2	....	....	2	....	....	..	..	..	..	..	1	1	..	..	..	..	..
10. Influenza	1	....	..	..	..	..	..	..	....	..	..	..	1	..	..	..	..	1	....	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
18. Erysipelas	1	1	..	..	..	..	..	..	....	..	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
24. Tetanus	1	....	..	..	..	..	..	..	....	..	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
28. Tuberculosis of the lungs	8	....	..	..	..	..	..	..	3	....	3	1	1	..	..	..	..	7	1	....	7	1	....	5	3	....	1	1	2	2	1	..	1	..	..	..	..
30. Tuberculous meningitis	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
33. White swelling	1	....	..	..	..	..	..	..	....	..	..	..	1	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
36. Rickets	1	1	..	..	..	..	..	..	....	..	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
40. Cancer and other malignant tumors of the stomach, liver	5	....	..	..	..	..	..	..	....	1	1	3	....	..	..	..	..	2	3	....	5	....	....	2	3	....	1	..	..	1	..	1	..	..	..	1	1
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	1	....	..	..	..	..	..	..	....	..	1	....	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	....	..	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	....	..	..	..	1	..	..	..	..	....	1	....	....	1	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	..	....	..	..	..	....	2	..	..	..	....	2	....	....	2	....	1	1	....	1	..	..	..	..	..	..	1	..	..	..	..
50. Diabetes	1	....	..	..	..	..	..	..	....	1	..	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
54. Anæmia, chlorosis	1	1	..	..	..	..	..	..	....	..	..	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
56. Alcoholism (acute or chronic)	4	....	..	..	..	..	..	..	....	..	2	2	....	..	..	..	..	4	....	....	3	1	....	2	2	....	..	..	2	..	..	..	..	1	..	1	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	16	1	1	..	..	1	..	..	1	1	..	1	1	3	6	..	..	8	8	....	12	4	....	5	11	....	..	2	1	2	1	1	2	2	2	1	2	..
61. Simple meningitis	1	1	..	..	..	..	..	..	....	..	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	7	....	..	..	..	..	..	..	1	....	..	1	2	3	..	..	..	2	5	....	4	3	....	2	5	....	..	2	..	2	..	1	1	1	..	..	..	..
66. Paralysis without specified cause	2	....	..	..	..	..	..	..	....	..	..	..	2	..	2	..	..	2	....	....	1	1	....	....	2	....	..	..	..	..	1	..	..	..	..	..	1	..
67. General paralysis of the insane	1	....	..	..	..	..	..	..	....	..	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
68. Other forms of mental alienation	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
70. Convulsions (non-puerperal)	1	....	..	..	..	1	..	..	....	..	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
71. Convulsions of infants	1	....	1	..	..	..	..	..	....	..	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
73. Neuralgia and neuritis	1	....	..	..	..	..	..	..	....	..	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
74. Other diseases of the nervous system	1	....	..	..	..	..	..	..	....	..	..	..	....	..	1	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
III.—Diseases of the Circulatory System.																																						
Group Total	18	....	..	..	..	..	..	..	..	....	1	1	2	6	6	2	..	15	3	....	12	6	....	1	16	1	1	3	2	4	1	2	1	2	1	..	1	..
79. Organic diseases of the heart	7	....	..	..	..	..	..	..	..	....	1	1	2	1	2	..	..	4	3	....	6	1	....	1	5	1	..	1	1	1	1	..	1	..	1	..	1	..
80. Angina pectoris	2	....	..	..	..	..	..	..	..	....	..	..	....	2	..	..	..	2	....	....	1	1	....	....	2	....	..	1	..	1	..	..	..	..	..	..	..	..
81. Diseases of the Arteries, atheroma, aneurysm, etc.	9	....	..	..	..	..	..	..	..	....	..	..	....	3	4	2	..	9	....	....	5	4	....	....	9	....	1	1	1	2	..	2	..	2	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	15	3	1	1	..	..	..	..	..	....	..	..	....	1	3	6	..	9	6	....	8	7	....	4	11	....	6	2	3	1	..	..	2	..	..	..	..	1
89. Acute bronchitis	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	....	1	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
90. Chronic bronchitis	2	....	..	..	..	..	..	..	..	....	..	..	....	..	..	2	..	....	2	....	....	2	....	....	2	....	1	..	..	..	..	..	1	..	..	..	..	..
91. Broncho-pneumonia	2	1	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	1	....	1	1	....	1	1	....	1	1	..	..	..	..	..	..	..	..	..	..
92. Pneumonia	9	2	1	1	..	..	..	..	..	....	..	..	....	1	2	2	..	7	2	....	7	2	....	3	6	....	3	1	3	..	..	..	1	..	..	..	..	1
96. Asthma	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	19	11	1	..	..	..	..	..	1	2	..	1	1	1	1	..	..	12	7	....	18	1	....	15	4	....	2	..	4	..	2	..	4	4	..	1	2	..
102. Ulcer of the stomach	3	....	..	..	..	..	..	..	..	....	..	1	1	..	1	..	..	2	1	....	2	1	....	....	3	....	..	..	1	..	..	..	..	..	..	1	1	..
104. Diarrhœa and enteritis (under 2 years)	12	11	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	7	5	....	12	....	....	12	....	....	1	..	3	..	1	..	3	4	..	..	..	..
108. Appendicitis and typhlitis	2	....	..	..	..	..	..	..	1	1	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	1	..	1	..	..	..	..	..
109. Hernias, intestinal obstructions	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
113. Cirrhosis of the liver	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	5	....	..	..	..	..	1	..	..	....	..	..	3	1	..	..	..	3	2	....	4	1	....	1	4	....	..	..	..	1	..	1	..	..	1	1	1	..
119. Acute nephritis	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	1	1	....	1	1	....	....	2	....	..	..	..	..	..	1	..	..	1	..	..	..
120. Bright's disease	2	....	..	..	..	..	1	..	..	....	..	..	1	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	1	..	..	..	..	..	1	..
131. Cysts and other tumors of the ovary	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	3	....	..	..	..	..	..	..	1	1	..	..	....	1	..	..	..	1	2	....	3	....	....	2	1	....	..	..	..	..	..	..	..	..	1	..	1	1
144. Acute abscess	3	....	..	..	..	..	..	..	1	1	..	..	....	1	..	..	..	1	2	....	3	....	....	2	1	....	..	..	..	..	..	..	..	..	1	..	1	1
XI.—Diseases of Early Infancy.																																						
Group Total	13	13	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	8	5	....	13	....	....	13	....	....	1	2	2	..	1	1	2	2	..	1	1	..
151. Congenital debility, icterus, and sclerema	12	12	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	7	5	....	12	....	....	12	....	....	..	2	2	..	1	1	2	2	..	1	1	..
152. Other diseases peculiar to early infancy	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	193	27	7	3	6	2	6	.....	7	17	9	21	15	25	28	20	.....	86	107	.....	112	76	5	82	107	4	10	17	19	28	16	15	13	13	8	14	17	23
I.—General Diseases.																																						
Group Total	52	3	2	2	3	1	4	..	4	8	2	5	4	2	5	..	..	24	28	....	35	16	1	27	24	1	5	5	5	8	6	3	3	4	1	1	6	5
1. Typhoid fever	3	....	..	..	..	..	..	..	..	2	..	..	1	..	..	..	..	3	....	....	2	1	....	1	2	....	1	..	..	..	..	..	..	..	..	1	..	1
6. Measles	4	1	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	1	3	....	4	....	....	4	....	....	..	..	..	3	1	..	..	..	..	..	..	..
7. Scarlet fever	2	....	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	1	1	....	2	....	....	2	....	....	1	1	..	..	..	..	..	..	..	..	..	..
9. Diphtheria and croup	5	....	1	..	1	..	3	..	..	..	..	..	..	..	..	..	..	3	2	....	5	....	....	5	....	....	..	..	..	2	..	1	..	1	..	..	..	..
10. Influenza	2	....	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	....	2	....	....	2	....	....	2	....	1	1	..	..	..	..	..	..	..	..	..	..
18. Erysipelas	2	....	..	..	..	..	..	..	..	..	..	1	....	1	..	..	..	1	1	....	1	1	....	....	2	....	..	..	1	..	..	..	..	1	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	..	1	....	..	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
28. Tuberculosis of the lungs	10	1	..	..	..	..	..	4	4	1	..	....	..	..	..	..	..	5	5	....	6	4	....	7	3	....	..	1	1	..	2	1	2	..	..	..	2	1
30. Tuberculous meningitis	2	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	1	....	1	1	....	2	....	....	..	..	..	1	..	..	..	..	..	..	..	1
40. Cancer and other malignant tumors of the stomach, liver	4	....	..	..	..	..	..	..	..	..	..	1	1	1	1	..	..	1	3	....	3	....	1	....	3	1	..	..	..	1	..	..	..	1	..	..	1	1
43. Cancer and other malignant tumors of the breast	3	....	..	..	..	..	..	..	..	..	..	..	3	..	..	..	..	....	3	....	1	2	....	....	3	....	..	1	..	1	1	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	7	....	..	..	..	..	..	..	..	1	1	..	1	3	1	..	..	4	3	....	5	2	....	3	4	....	1	..	..	1	1	1	1	..	1	..	1	..
50. Diabetes	3	....	..	..	1	..	..	..	..	..	..	..	....	1	1	..	..	....	3	....	1	2	....	1	2	....	..	1	1	..	..	..	..	1	..	..	..	..
54. Anæmia, chlorosis	2	....	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	1	1	....	2	....	....	1	1	....	1	..	1	..	..	..	..	..	..	..	..	..
56. Alcoholism (acute or chronic)	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	1	..	..	..	..	..	..	..	..	1
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	26	5	..	..	2	1	1	..	..	2	1	4	2	2	4	2	..	13	13	....	17	9	....	13	13	....	2	2	1	3	1	2	4	1	2	2	2	4
60. Encephalitis	1	....	..	..	..	..	1	..	..	..	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
61. Simple meningitis	4	....	..	..	..	1	..	..	..	1	..	1	1	..	..	..	..	2	2	....	2	2	....	1	3	....	1	..	1	..	..	1	..	..	..	1	..	..
64. Cerebral hæmorrhage, apoplexy	6	....	..	..	..	..	..	..	..	..	..	..	1	2	2	1	..	4	2	....	1	5	....	1	5	....	..	..	..	2	1	..	1	..	..	..	1	1
65. Softening of the brain	2	....	..	..	..	..	..	..	..	..	..	..	....	2	2	..	..	1	1	....	1	1	....	....	2	....	..	..	..	..	..	1	..	..	..	..	..	1
66. Paralysis without specified cause	3	....	..	..	..	..	..	..	..	..	1	1	....	..	1	..	..	....	3	....	2	1	....	2	1	....	1	..	..	..	..	1	..	..	..	..	..	1
69. Epilepsy	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	..	..	1	..	..	..	..	1
70. Convulsions (non-puerperal)	1	....	..	..	1	..	..	..	..	..	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
71. Convulsions of infants	5	5	..	..	..	..	..	..	..	..	..	..	....	..	..	..	..	2	3	....	5	....	....	5	....	....	..	2	..	1	..	..	..	1	..	..	1	..
73. Neuralgia and neuritis	1	....	..	..	..	..	..	..	..	..	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
76. Diseases of the ears	1	....	..	..	1	..	..	..	..	..	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..

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BERLIN—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
IX.—Diseases of the Bones and of the Organs of Locomotion																																						
Group Total	2	....	..	..	..	..	..	..	1	....	..	1	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	1	1	..	..	..	..	..	..	..	..	..
146. Diseases of the bones (tuberculosis excepted)	2	....	..	..	..	..	..	..	1	....	..	1	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	1	1	..	..	..	..	..	..	..	..	..
XI.—Diseases of Early Infancy.																																						
Group Total	14	14	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	7	7	....	14	....	....	14	....	....	..	..	2	2	1	3	..	2	2	..	1	1
151. Congenital debility, icterus, and sclerema	13	13	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	6	7	....	13	....	....	13	....	....	..	..	2	2	..	3	..	2	2	..	1	1
152. Other diseases peculiar to early infancy	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
154. XII.—Old Age.																																						
Group Total	19	....	..	..	..	..	..	..	..	....	..	..	....	..	7	12	..	9	10	....	4	13	2	3	14	2	1	..	4	2	..	2	2	1	..	2	2	3
XIII.—Affections Produced by External Causes.																																						
Group Total	5	....	1	..	..	..	1	..	..	....	2	1	....	..	..	..	..	3	2	....	2	3	....	2	3	....	..	..	..	..	1	2	..	..	..	2	..	..
167. Burns (conflagration excepted)	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
174. Traumatism by machines	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
181. Electricity (lightning excepted)	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
186. Other external violence	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
189. Cause of death not specified or ill-defined	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
Still-Births.																																						
Not included in totals	17	17	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	5	12	....	17	....	....	17	....	....	5	..	2	1	1	1	..	1	1	1	1	3

CAUSES OF DEATH IN THE CITY OF BRANTFORD, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	334	80		14	4		1	3	7	6	24	22	26	31	28	48	36	4	165	168	1	205	103	26	146	95	93	29	20	29	41	28	24	28	32	31	27	24	21
I.—General Diseases.																																							
Group Total	69	10	4	2	..	1	3	1	1	12	8	5	7	8	3	3	1	36	33	....	45	20	4	36	16	17	5	4	6	11	3	8	6	4	4	7	5	6
1. Typhoid fever	4	....		1	..	..	..	..	..	1	1	1	..	....	..	..	..	..	4	....	....	3	1	....	4	....	....	1	..	..	..	..	..	1	..	..	2	1	..
6. Measles	1	1		..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
8. Whooping cough	8	3	3	2	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	7	....	8	....	....	8	....	....	1	1	1	1	1	1	..	1	1	..	..	..
9. Diphtheria and croup	2	....		..	..	..	1	1	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	3	..	..	..	..	..	1	1	..
10. Influenza	4	2		..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	3	1	....	2	2	....	2	2	....	1	..	..	..	..	..	..	..	..	..	1	..
14 Dysentery	1	1		..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
18. Erysipelas	1	....		..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1
20. Purulent infection and septicæmia	1	....		..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
24. Tetanus	1	....		..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	20	1		..	..	..	..	..	..	..	7	4	3	4	1	..	..	..	10	10	....	12	7	1	6	4	10	1	2	2	2	1	3	..	1	1	..	..
30. Tuberculous meningitis	3	2		..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	2	1	....	3	....	....	3	....	....	..	..	..	..	..	..	..	..	..	..	..	..
31. Abdominal tuberculosis	1	....		..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
34. Tuberculosis of other organs	1	....		..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	3	....		..	..	..	..	..	..	..	....	..	..	1	1	1	..	..	2	1	....	3	....	....	....	2	1	....	..	1	1	..	..	..	1	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	6	....		..	..	..	..	..	..	..	1	..	..	....	3	1	1	..	4	2	....	1	4	1	2	3	1	1	..	1	..	..	..	..	1	1	..	1	..
51. Exophthalmic goitre	2	....		..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	2	....	....	1	....	1	....	1	....	....	..	..	..	1	..	..	..	..	..	1	..	..
53. Leucæmia	1	....		..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	....	..	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	6	....		..	..	..	..	..	..	..	1	1	2	....	1	..	..	1	....	6	....	4	1	1	2	3	1	..	..	1	1	1	1	1	..	1	..	..	..
55. Other general diseases	2	....		..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	1	1	....	1	1	....	1	....	1	..	..	..	..	..	..	2	..	..	..	..	..
56. Alcoholism (acute or chronic)	1	....		..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	1	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	34	5	2	..	..	..	..	..	2	..	2	1	3	6	5	6	2	..	21	13	....	18	12	4	11	10	13	7	1	3	4	5	2	2	3	1	2	4	..
61. Simple meningitis	6	....	2	..	..	..	..	..	2	..	1	..	1	....	..	..	..	..	4	2	....	4	2	....	4	1	1	1	..	..	1	2	..	..	2	..	..	..	..
63. Other diseases of the spinal cord	1	....	..	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	15	....	..	..	..	..	..	..	..	..	....	1	1	6	1	4	2	..	9	6	....	7	6	2	1	6	8	4	..	..	1	1	2	1	2	..	..	1	..
66. Paralysis without specified cause	3	....	..	..	..	..	..	..	..	..	....	..	..	....	2	1	..	..	2	1	....	1	1	1	....	2	1	1	..	..	1	..	..	..	..	..	1	..	1
69 Epilepsy	1	....	..	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	1	....	....	1	....	....	..	..	..	1	1	1	..	..	1	..	1	..
71. Convulsions of infants	5	5	..	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	4	1	....	5	....	....	5	....	....	1	1	1	..	..	..	..	1	..	..	..	..
74. Other diseases of the nervous system	3	....	..	..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	2	1	....	1	1	1	1	....	2	..	..	..	..	..	..	..	..	..	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
III.—Diseases of the Circulatory System.																																						
Group Total	40	....	..	..	..	..	..	1	1	....	3	4	8	9	6	7	1	27	13	....	20	13	7	6	14	20	5	4	3	3	2	6	3	3	3	3	3	2
77. Pericarditis	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
78. Acute endocarditis	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
79. Organic diseases of the heart	23	....	..	..	..	..	..	1	..	....	3	3	4	8	2	1	1	16	7	....	11	6	6	5	4	14	3	3	3	2	2	3	1	3	1	2	..	..
81. Diseases of the Arteries, atheroma, aneurysm, etc.	11	....	..	..	..	..	..	..	..	....	..	..	3	1	4	6	..	10	1	....	6	7	1	....	9	5	2	1	..	1	..	2	2	..	1	1	3	1
83. Diseases of the veins (varices, hemorrhoids, phlebitis, etc.)	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	....	1	..	..	..	..	..	..	..	1	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	34	7	1	..	..	..	..	..	..	....	2	6	5	2	9	2	..	13	21	....	20	12	2	10	14	10	3	3	2	8	1	1	3	1	4	1	1	3
89. Acute bronchitis	2	1	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	1	....	2	....	....	1	....	1	1	1	..	..	..	..	..	..	..	..	..	..
90. Chronic bronchitis	6	....	..	..	..	..	..	..	..	....	..	..	....	..	5	1	..	1	5	....	4	....	2	1	5	....	1	1	..	..	..	..	..	1	..	1	1	1
91. Broncho-pneumonia	7	4	1	..	..	..	..	..	..	....	..	..	1	..	1	..	..	5	2	....	4	3	....	4	2	1	..	..	1	1	1	1	..	1	2	..	..	..
92. Pneumonia	16	2	..	..	..	..	..	..	..	....	2	4	3	2	2	1	..	6	10	....	8	8	....	3	6	7	1	1	1	7	..	..	..	..	2	..	3	1
94. Pulmonary congestion, pulmonary apoplexy	2	....	..	..	..	..	..	..	..	....	..	2	....	..	..	..	..	....	2	....	1	1	....	1	1	....	..	..	..	..	..	..	1	..	..	..	..	1
98. Other diseases of the respiratory system (tuberculosis excepted)	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	....	1	..	..	..	..	..	..	1	..	..	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	44	20	6	1	..	..	..	1	3	2	2	4	....	3	2	..	..	17	27	....	38	5	1	33	5	6	..	2	4	2	4	2	2	10	12	5	1	..
103. Other diseases of the stomach (cancer excepted)	7	3	1	..	..	..	..	..	..	....	..	1	....	1	1	..	..	3	4	....	5	2	....	5	1	1	..	..	1	..	2	1	..	1	2	..	..	..
104. Diarrhœa and enteritis (under 2 years)	21	16	5	..	..	..	..	..	..	....	..	..	....	..	..	..	..	9	12	....	21	....	....	21	....	....	..	..	..	..	..	2	..	1	7	3	..	..
105. Diarrhœa and enteritis (2 years and over)	2	....	..	1	..	..	..	..	..	....	..	..	....	..	1	..	..	1	1	....	1	....	1	1	1	....	..	1	..	..	..	..	..	..	..	1	..	..
108. Appendicitis and typhlitis	6	....	..	..	..	..	..	1	3	1	..	1	....	..	..	..	..	3	3	....	4	2	....	1	1	1	..	1	2	....	..	1	..	..	1	1	..	..
109. Hernias, intestinal obstructions	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	....	....	1	..	..	..	1	..	..	..	..	..	..	..	..
110. Diseases of the intestines	3	1	..	..	..	..	..	..	..	....	1	1	....	..	..	..	..	....	3	....	3	....	....	1	1	1	..	..	1	..	..	..	1	1	..	..	..	..
115. Other diseases of the liver	3	....	..	..	..	..	..	..	..	....	..	2	....	1	..	..	..	1	2	....	2	1	....	....	1	2	..	..	..	1	..	..	1	1	..	..	..	..
117. Simple peritonitis (non-puerperal)	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	9	1	..	..	..	..	..	..	..	1	2	..	3	..	2	..	..	4	5	....	5	3	1	2	2	5	..	..	3	1	1	1	..	1	..	..	2	..
119. Acute nephritis	2	1	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	2	....	1	....	1	1	1	....	..	..	1	1	..	..	..	..	..	..	..	..
120. Bright's disease	3	....	..	..	..	..	..	..	..	....	1	..	2	..	..	..	..	1	2	....	2	1	....	1	....	2	..	..	1	..	..	1	..	..	..	..	1	..
124. Diseases of the bladder	2	....	..	..	..	..	..	..	..	....	1	..	....	..	1	..	..	2	....	....	....	2	....	....	1	1	..	..	1	..	1	..	..	..	..	..	..	..
126. Diseases of the prostate	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	..	1	..	..
132. Salpingitis and other diseases of the female genital organs	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	..	..	..	..

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CAUSES OF DEATH IN THE CITY OF CHATHAM, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.
Number of Column.	1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	187	33	2	2	1	2	3	.....	3	18	15	11	23	18	37	19	.....	99	88	.....	145	28	14	70	114	3	18	21	9	13	20	10	11	21	22	13	17
I.—General Diseases.																																					
Group Total	46	3	..	1	..	2	1	..	1	11	7	4	7	4	4	1	..	24	22	....	38	5	3	17	29	....	4	8	3	3	6	2	2	5	6	3	3	1
1. Typhoid fever	5	....	..	..	..	..	..	..	..	..	2	1	..	1	1	..	..	..	3	2	....	4	1	....	2	3	....	1	1	..	1	..	..	..	..	2	..	..	..
8. Whooping cough	4	2	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	..	2	2	....	4	....	....	4	....	....	..	..	..	..	..	..	..	2	..	..	..	..
9. Diphtheria and croup	1	....	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	2	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	15	1	..	..	..	..	..	..	..	..	8	5	..	1	..	..	..	..	5	10	....	15	....	....	6	9	....	1	4	3	1	2	1	..	1	1	1	..	..
30. Tuberculous meningitis	1	....	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	..	..	..	..	....	1	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	5	....	..	..	..	..	..	..	1	....	..	..	2	..	2	..	..	..	4	1	....	3	2	....	2	3	....	..	..	..	..	..	1	2	1	..	..	1	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	1	....	..	..	..	..	..	..	..	..	..	..	..	....	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	..	..	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	3	....	..	..	..	..	..	..	..	..	..	2	....	..	1	..	..	..	....	3	....	2	1	....	....	3	....	..	..	..	..	..	..	..	..	..	..	1	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	....	....	....	....	1	1	....	....	..	..	..	..	..	..	..	1	1	1	..	..
50. Diabetes	2	....	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	2	....	....	1	....	1	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	3	....	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	2	1	....	2	....	1	2	....	....	..	..	..	1	1	..	..	..	..	..	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	1	..	..	..
57. Chronic lead poisoning	1	....	..	..	..	..	..	..	..	..	..	1	..	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	30	2	1	1	1	..	1	..	..	2	2	2	6	4	7	1	..	14	16	....	22	5	3	9	20	1	2	3	1	4	5	..	2	3	2	2	1	5
61. Simple meningitis	7	2	1	1	..	..	1	..	..	1	1	..	....	..	..	..	..	..	3	4	....	7	....	....	6	1	....	..	..	..	2	4	..	..	1	..	..	..	..
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	....	....	....	1	....	1	....	..	..	..	1	....	..	..	..	..	..	..	..
63. Other diseases of the spinal cord	1	....	..	..	..	..	..	..	..	..	..	1	....	..	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	15	....	..	..	..	..	..	..	..	1	..	1	3	4	5	1	..	..	7	8	....	9	4	2	2	13	....	2	2	1	..	..	..	1	2	..	2	1	4
66. Paralysis without specified cause	1	....	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
70. Convulsions (non-puerperal)	1	....	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
73. Neuralgia and neuritis	2	....	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	1	....	2	....	....	....	2	....	..	1	..	..	..	..	..	..	..	..	..	..
74. Other diseases of the nervous system	2	....	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	....	2	....	2	....	....	....	1	1	..	..	..	..	..	..	..	..	..	..	..	1

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CHATHAM—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
XI.—Diseases of Early Infancy.																																						
Group Total	15	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	6	....	15	....	....	15	....	....	1	..	2	..	2	1	1	4	1	..	3	..
151. Congenital debility, icterus, and sclerema	15	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	9	6	....	15	....	....	15	....	....	1	..	2	..	2	1	1	4	1	..	3	..
154. XII.—Old Age.																																						
Group Total	19	....	..	..	..	..	..	..	..	..	..	..	..	..	7	12	..	10	9	....	11	7	1	1	18	....	1	3	..	..	..	1	2	1	5	3	1	2
XIII.—Affections Produced by External Causes.																																						
Group Total	10	....	..	..	..	..	..	..	..	2	2	..	2	..	2	2	..	5	5	....	6	4	....	2	8	....	3	..	..	1	1	1	..	..	2	..	..	2
159. Suicide by firearms	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
167. Burns (conflagration excepted)	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	1	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
169. Accidental drowning	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	..	..	..	1	..	1	..	..	..	..	..
172. Traumatism by fall	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
185. Fractures (cause not specified)	2	....	..	..	..	..	..	..	..	1	..	..	....	..	1	..	..	....	2	....	2	....	....	....	2	....	..	..	..	..	..	..	..	..	..	..	..	2
186. Other external violence	3	....	..	..	..	..	..	..	..	1	..	..	....	..	1	1	..	1	2	....	1	2	....	....	3	....	1	..	..	..	..	..	..	2	..	..	..	..
Still-Births.																																						
Not included in totals	14	14	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	10	4	....	14	....	....	14	....	....	..	1	2	1	1	..	5	1	3	..	..	..

CAUSES OF DEATH IN THE CITY OF FORT WILLIAM, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	288	98	25	4	4	2	3	1	7	40	33	23	14	16	9	3	6	180	108	.....	191	83	14	178	96	14	11	22	15	23	34	21	22	23	30	22	25	40
I.—General Diseases.																																						
Group Total	52	12	5	1	1	1	1	..	2	5	9	5	4	6	..	..	..	33	19	....	33	18	1	29	22	1	5	2	2	4	9	5	4	4	8	1	1	7
1. Typhoid fever	7	....	..	..	..	..	..	..	..	2	3	1	1	..	..	..	..	6	1	....	1	5	1	3	3	1	1	..	..	1	1	..	1	..	2	..	..	1
6. Measles	2	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	1	....	1	1	....	2	....	....	..	..	..	..	..	1	1	..	..	..	..	..
8. Whooping cough	10	3	5	1	..	1	..	..	..	..	..	..	..	..	..	..	..	8	2	....	10	....	....	10	....	....	1	1	..	1	3	..	1	2	..	..	..	1
9. Diphtheria and croup	1	....	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
14. Dysentery	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
18. Erysipelas	2	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	....	2	....	1	1	....	1	1	....	..	..	..	..	..	1	..	..	..	..	..	..
20. Purulent infection and septicæmia	2	....	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	1	1	....	....	2	....	....	2	....	..	..	..	..	..	..	..	..	..	..	1	1
23. Rabies	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
24. Tetanus	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	12	3	..	..	..	..	..	1	1	2	2	2	1	..	..	..	..	5	7	....	7	5	....	5	7	....	1	1	1	1	3	1	1	1	2	..	..	..
30. Tuberculous meningitis	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
37. Syphilis	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	2	....	..	..	..	..	..	..	..	..	..	1	....	1	..	..	..	....	2	....	1	1	....	....	2	....	..	..	..	..	..	1	..	..	1	..	..	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	1	..	..	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
54. Anæmia, chlorosis	3	....	..	..	..	..	..	..	..	....	..	..	1	2	..	..	..	3	....	....	3	....	....	....	3	....	..	..	..	1	..	..	..	1	1	..	..	..
56. Alcoholism (acute or chronic)	3	....	..	..	..	..	..	..	..	1	1	1	....	..	..	..	..	3	....	....	1	2	....	2	1	....	2	..	..	..	..	..	..	..	..	..	..	1
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	25	9	1	..	..	..	..	..	1	4	2	1	3	1	1	2	..	17	8	....	15	9	1	14	10	1	..	5	3	4	2	2	1	1	..	1	2	4
60. Encephalitis	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	1	..
61. Simple meningitis	4	2	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	1	3	....	2	2	....	3	1	....	..	..	1	..	1	..	1	..	1	..	..	..
63. Other diseases of the spinal cord	1	....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	6	....	..	..	..	..	..	..	..	..	..	..	3	..	1	2	..	5	1	....	4	2	....	....	6	....	..	..	..	2	1	1	..	..	..	..	1	1
66. Paralysis without specified cause	2	....	..	..	..	..	..	..	..	....	1	..	....	1	..	..	..	2	....	....	....	2	....	....	1	1	....	..	..	..	1	..	..	..	..	..	..	1	1
70. Convulsions (non-puerperal)	2	....	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	1	1	....	1	1	....	1	1	....	..	..	..	..	..	..	1	..	..	..	..	1
71. Convulsions of infants	7	7	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	5	2	....	7	....	....	7	....	....	..	3	..	1	1	..	..	..	..	1	..	1
74. Other diseases of the nervous system	2	....	..	..	..	..	..	1	..	1	..	..	....	..	..	..	..	1	1	....	....	2	....	1	....	....	..	..	1	..	..	1	..	..	..	..	..	..

FORT WILLIAM—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
III.—Diseases of the Circulatory System.																																						
Group Total	17	....	..	..	..	..	..	..	..	1	4	2	1	5	4	..	..	11	6	....	6	9	2	1	14	2	2	1	4	3	2	2	..	..	..	2	1
78. Acute endocarditis	2	....	..	..	..	..	..	..	..	....	2	..	....	..	..	..	..	2	....	....	....	2	....	....	2	....	..	1	..	..	..	..	..	..	..	..	..	1
79. Organic diseases of the heart	14	....	..	..	..	..	..	..	..	1	2	2	1	5	3	..	..	8	6	....	6	6	2	1	11	2	2	..	4	3	2	1	..	..	..	2	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	42	16	4	2	1	..	..	..	2	6	3	4	1	1	2	..	..	25	17	....	30	12	....	27	13	2	..	4	1	3	8	5	1	4	2	3	6	5
87. Diseases of the larynx	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
89. Acute bronchitis	2	2	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	2	....	2	....	....	2	....	....	..	..	..	..	..	..	1	..	..	..	..	1
90. Chronic bronchitis	2	1	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	2	....	1	1	....	1	1	....	..	..	..	..	..	1	..	..	..	..	..	1
91. Broncho-pneumonia	8	5	2	..	1	..	..	..	..	....	..	..	....	..	..	..	..	5	3	....	8	....	....	8	....	....	..	1	..	4	1	..	..	..	1	1
92. Pneumonia	28	8	2	1	..	..	..	..	2	6	3	4	1	..	1	..	..	20	8	....	17	11	....	15	11	2	..	3	1	3	4	3	1	3	..	3	5	2
96. Asthma	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	40	18	15	1	2	..	1	..	..	1	1	..	....	1	..	..	..	16	24	....	37	3	....	37	3	....	..	1	..	4	4	2	3	5	11	5	2	3
104. Diarrhœa and enteritis (under 2 years)	32	17	15	..	..	..	..	..	..	....	..	..	....	..	..	..	..	12	20	....	32	....	....	32	....	....	..	1	..	3	3	1	2	5	5	2	1
105. Diarrhœa and enteritis (2 years and over)	4	....	..	1	2	..	1	..	..	....	..	..	....	..	..	..	..	2	2	....	3	1	....	4	....	....	..	..	..	..	..	1	..	..	2	..	..	1
110. Diseases of the intestines	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
113. Cirrhosis of the liver	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
115. Other diseases of the liver	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
117. Simple peritonitis (non-puerperal)	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	7	....	..	..	..	..	..	..	..	1	1	2	3	..	..	..	..	2	5	....	5	2	....	1	6	....	..	1	..	..	1	..	..	..	1	2	..	2
120. Bright's disease	4	....	..	..	..	..	..	..	..	....	1	2	1	..	..	..	..	2	2	....	3	1	....	1	3	....	..	..	..	..	..	1	..	..	..	1	1	..	1
123. Calculi of the urinary passages	2	....	..	..	..	..	..	..	..	....	..	..	2	..	..	..	..	....	2	....	1	1	....	....	2	....	..	..	..	..	..	..	..	..	..	1	..	1
132. Salpingitis and other diseases of the female genital organs	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
VII.—The Puerperal State.																																						
Group Total	5	....	..	..	..	..	..	..	..	1	4	..	....	..	..	..	..	....	5	....	3	2	....	2	3	....	..	1	..	..	1	..	1	..	1	..	1	..
134. Accidents of pregnancy	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
136. Other accidents of labor	2	....	..	..	..	..	..	..	..	....	2	..	....	..	..	..	..	....	2	....	....	2	....	....	2	....	..	1	..	..	1	..	..	..	..	..	..	..
137. Puerperal septicæmia	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
139. Puerperal phlegmasia alba dolens, embolus, sudden death	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1. 0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	213	29	2	4	2	1	1	.....	4	13	22	12	27	34	34	26	2	119	94	.....	151	51	11	64	145	4	20	20	21	19	15	16	13	13	21	19	18	18
I.—General Diseases.																																						
Group Total	49	....	..	2	1	..	..	..	3	5	6	3	12	8	6	3	..	24	25	....	37	12	....	15	34	....	5	7	7	2	2	3	..	3	5	6	3	6
1. Typhoid fever	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
9. Diphtheria and croup	3	....	..	2	1	..	..	..	..	....	..	..	....	..	..	..	..	1	2	....	3	....	....	3	....	....	1	1	1	..	..	..	..	..	..	..	..	..
10. Influenza	2	....	..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	....	2	....	1	1	....	....	2	....	..	2	..	..	..	..	..	..	..	..	..	..
14. Dysentery	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	13	....	..	..	..	..	..	1	5	2	2	1	1	1	..	..	8	5	....	11	2	....	7	6	....	1	1	1	1	1	..	1	2	..	..	2	..
39. Cancer and other malignant tumors of the buccal cavity	2	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	....	2	....	2	....	....	....	2	....	..	..	1	..	..	..	..	..	..	1	..	..
40. Cancer and other malignant tumors of the stomach, liver	7	....	..	..	..	..	..	..	..	....	..	..	4	1	1	1	..	3	4	....	6	1	....	1	6	....	..	..	..	..	1	..	..	1	1	1	1	2
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	6	....	..	..	..	..	..	..	..	....	..	..	1	3	2	..	..	4	2	....	4	2	....	2	4	....	1	1	..	..	..	2	..	..	..	1	..	1
43. Cancer and other malignant tumors of the breast	2	....	..	..	..	..	..	..	..	....	..	1	....	..	..	1	..	....	2	....	....	2	....	....	2	....	1	..	..	..	..	..	..	..	1	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	3	....	..	..	..	..	..	..	..	....	..	..	2	..	1	..	..	1	2	....	1	2	....	....	3	....	..	..	..	1	..	..	..	1	1	..	..	..
47. Acute articular rheumatism	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	....	1	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	2	....	..	..	..	..	..	..	..	....	..	..	....	2	..	..	..	1	1	....	1	1	....	....	2	....	..	1	..	..	..	..	..	..	..	..	..	1
56. Alcoholism (acute or chronic)	3	....	..	..	..	..	..	..	..	....	2	..	1	..	..	..	..	3	....	....	3	....	....	....	3	....	..	..	..	1	..	..	..	..	..	1	..	1
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	23	6	..	..	..	..	..	..	..	....	4	..	3	5	3	2	..	17	6	....	16	5	2	9	14	....	1	4	2	4	2	..	2	2	2	1	1	2
61. Simple meningitis	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
64. Cerebral hæmorrhage, apoplexy	5	....	..	..	..	..	..	..	..	....	..	..	....	1	2	2	..	2	3	....	3	2	....	....	5	....	..	1	1	1	..	..	..	2	..	..	..	..
66. Paralysis without specified cause	4	....	..	..	..	..	..	..	..	....	1	..	1	1	1	..	..	4	....	....	2	1	1	1	3	....	1	..	..	..	..	1	..	2	..	..	..	..
67. General paralysis of the insane	3	....	..	..	..	..	..	..	..	....	1	..	1	1	..	..	..	3	....	....	1	1	1	1	2	....	..	1	..	..	1	1	..	..	..	..	..	..
68. Other forms of mental alienation	3	....	..	..	..	..	..	..	..	....	2	..	....	1	..	..	..	1	2	....	3	....	....	1	2	....	..	..	..	..	1	1	..	..	..	..	1	..
71. Convulsions of infants	5	5	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	4	1	....	5	....	....	5	....	....	..	1	1	1	..	..	..	..	..	..	..	2
74. Other diseases of the nervous system	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
IX.—Diseases of the Bones and of the Organs of Locomotion																																						
Group Total	1	....	..	..	..	1	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..
146. Diseases of the bones (tuberculosis excepted)	1	....	..	..	..	1	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..
X.—Malformations.																																						
Group Total	2	2	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	2	....	2	....	....	2	....	....	1	..	..	..	..	..	1	..	..	..	..
150. Congenital malformations (still-births not included)	2	2	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	2	....	2	....	....	2	....	....	1	..	..	..	..	..	1	..	..	..	..
XI.—Diseases of Early Infancy.																																						
Group Total	17	17	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	12	5	....	17	....	....	17	....	....	..	3	..	1	4	1	2	1	2	1	1	1
151. Congenital debility, icterus, and sclerema	17	17	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	12	5	....	17	....	....	17	....	....	..	3	..	1	4	1	2	1	2	1	1	1
154. XII.—Old Age.																																						
Group Total	30	....	..	..	..	..	..	..	..	....	..	..	....	2	13	15	..	15	15	....	13	14	3	1	29	....	3	2	2	3	4	3	3	2	2	2	2	2
XIII.—Affections Produced by External Causes.																																						
Group Total	12	....	..	..	..	..	1	..	..	2	1	2	2	1	1	1	1	8	4	....	9	2	1	2	9	1	..	..	..	3	..	3	..	..	2	3	1	..
155. Suicide by poison	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
157. Suicide by hanging or strangulation	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..
167. Burns (conflagration excepted)	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
169. Accidental drowning	2	....	..	..	..	..	1	..	..	....	..	1	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	1	..	..	..	..	..	1	..	..
170. Traumatism by firearms	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
172. Traumatism by fall	2	....	..	..	..	..	..	..	..	....	..	..	1	..	1	..	..	2	....	....	2	....	....	....	2	....	..	..	..	..	..	2	..	..	..	..	..	..
174. Traumatism by machines	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..
185. Fractures (cause not specified)	2	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	1	1	1	....	1	....	1	....	1	1	..	..	..	..	..	1	..	..	1	..	..	..
186. Other external violence	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	4	....	2	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	2	2	....	1	2	1	1	1	2	..	1	..	..	..	..	..	..	1	1	1	..
188. Sudden death	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	....	1	....	....	....	1	..	..	..	..	..	..	..	..	..	1	..	..
189. Cause of death not specified or ill-defined	3	....	2	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	2	....	1	1	1	1	1	1	..	1	..	..	..	..	..	..	1	..	1	..
Still-Births.																																						
Not included in totals	17	17	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	12	5	....	17	....	....	17	....	....	1	1	..	1	4	..	1	2	2	3	..

CAUSES OF DEATH IN THE CITY OF HAMILTON, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		Under 1. 0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	1223	311	50	22	16	7	20	10	25	88	90	94	126	121	150	86	7	639	584	....	787	382	54	578	614	31	95	92	105	106	101	60	90	138	121	122	93	100
I.—General Diseases.																																						
Group Total	270	30	11	10	6	2	5	6	10	33	30	31	34	34	25	2	1	125	145	....	170	89	11	113	151	6	23	13	22	21	35	16	22	32	26	23	19	18
1. Typhoid fever.	7	....	1	..	..	..	1	1	1	2	..	1	....	..	..	..	..	5	2	....	3	4	....	5	1	1	1	..	..	..	..	..	..	1	1	2	1	1
6. Measles	12	4	6	..	2	..	..	..	..	..	..	..	..	..	..	..	..	7	5	....	10	2	....	12	..	..	1	..	1	1	5	4	..	..	..	..	..	..
7. Scarlet fever	3	....	..	1	1	..	..	1	..	..	..	..	..	..	..	..	..	2	1	....	3	..	....	3	..	..	..	..	..	1	..	..	..	..	..	..	..	1
8. Whooping cough	21	15	1	3	1	..	1	..	..	..	..	..	..	..	..	..	..	6	15	....	21	..	....	21	..	..	5	..	2	2	4	..	4	3	..	1	..	..
9. Diphtheria and croup	8	....	..	3	1	2	1	..	..	....	1	..	..	..	..	..	..	4	4	....	7	1	....	7	1	....	1	..	..	1	1	..	1	..	1	1	2
10. Influenza	3	1	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	2	1	....	2	1	....	1	2	....	..	1	..	1	1	..	..	..	..	..	..	..
13. Cholera nostras	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
14. Dysentery	10	4	1	2	1	..	..	..	1	....	1	..	..	..	..	..	..	3	7	....	9	1	....	9	1	....	..	..	..	..	..	..	..	5	5	..	..	..
18. Erysipelas	2	....	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	....	2	....	2	..	....	1	1	....	..	..	1	..	..	..	..	..	..	1	..	1
20. Purulent infection and septicæmia	5	....	..	..	..	..	..	..	..	1	2	..	1	1	..	..	..	3	2	....	4	1	....	1	4	....	..	..	..	1	1	..	..	..	1	1	1
28. Tuberculosis of the lungs	74	2	..	..	..	..	1	6	26	12	15	7	3	2	..	..	..	39	35	....	41	30	....	34	39	1	3	5	5	7	9	5	6	8	9	6	5	8
30. Tuberculous meningitis	4	1	..	1	..	..	..	1	..	....	1	..	..	..	..	..	..	3	1	....	4	..	....	3	1	....	1	..	1	..	..	..	..	..	1	..	1	..
31. Abdominal tuberculosis	2	....	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	....	2	....	1	1	....	1	1	....	..	..	..	1	..	..	..	..	..	..	..	..
34. Tuberculosis of other organs	2	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	1	....	1	1	....	1	1	....	..	..	..	..	..	1	..	1	..	..	..	..
37. Syphilis	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	....	1	....	1	..	....	1	..	....	1	..	..	..	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	7	....	..	..	..	..	..	..	..	1	..	2	1	1	2	..	..	5	2	....	3	3	1	1	6	....	..	1	1	1	1	1	..	1	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	20	....	..	..	..	..	..	..	..	....	..	1	5	7	7	..	..	10	10	....	9	9	2	....	19	1	3	1	4	..	1	..	1	1	1	4	2	2
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	15	....	..	..	..	..	..	..	..	....	2	..	5	5	2	1	..	1	14	....	8	5	2	1	14	....	..	1	1	4	4	..	2	..	..	1	1	1
42. Cancer and other malignant tumors of the female genital organs	7	....	..	..	..	..	..	..	..	....	1	1	4	1	..	..	..	....	7	....	4	2	1	....	7	....	2	1	..	1	..	1	1	..	..	1	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	....	1	....	1	..	....	1	..	....	..	1	..	..	..	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	15	....	..	..	..	..	..	..	..	....	1	2	3	6	3	..	..	7	8	....	5	9	1	....	13	2	1	..	1	..	3	1	2	3	2	1	..	1
47. Acute articular rheumatism	3	....	..	..	..	..	..	2	..	....	..	1	..	..	..	..	..	1	2	....	3	..	....	2	1	....	..	1	..	..	..	..	..	..	..	1	1	..
48. Chronic rheumatism and gout	3	....	..	..	..	..	..	..	..	....	..	1	....	1	1	..	..	1	2	....	1	2	....	....	3	....	..	..	..	..	..	..	..	2	..	..	..	..
50. Diabetes	14	....	..	..	..	..	1	..	1	....	1	..	..	6	2	..	..	10	4	....	9	5	....	2	12	....	2	1	1	..	..	1	1	3	1	2	2	..
51. Exophthalmic goitre	5	....	..	..	..	..	..	..	1	1	1	1	1	..	..	..	..	....	5	....	5	..	....	1	3	1	..	..	..	..	..	..	..	2	1	..	2	..
52. Addison's disease	1	....	..	..	..	..	..	..	..	....	..	1	..	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
53. Leucæmia	1	....	..	..	..	..	..	..	..	....	1	..	..	..	..	..	..	1	..	....	1	..	....	1	..	....	..	..	..	..	..	..	..	..	..	..	..	1
54. Anæmia, chlorosis	16	....	..	..	..	..	..	..	..	2	3	4	2	5	..	..	..	8	8	....	4	9	3	2	14	....	..	2	1	1	2	1	2	1	1	2	2	1
55. Other general diseases	3	1	..	..	..	..	1	..	..	....	..	1	..	..	..	..	..	3	..	....	2	1	....	2	1	....	..	..	..	..	2	1	..	..	..	..	..	..
56. Alcoholism (acute or chronic)	4	....	..	..	..	..	..	..	..	....	1	1	1	..	..	..	1	3	1	....	3	..	1	..	2	....	2	1	..	..	..	..	..	..	1	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	99	21	6	3	..	..	3	1	3	2	..	9	10	17	15	8	1	60	39	....	65	32	2	11	56	2	8	6	5	12	11	6	10	6	6	17	9	3
61. Simple meningitis	17	3	5	3	..	..	3	..	1	1	..	..	..	..	1	..	..	10	7	....	16	1	....	16	1	....	2	2	1	..	2	1	1	2	1	2	3	..
62. Locomotor ataxia	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	....	1	..	....	..	1	....	..	..	..	1	..	..	..	..	..	..	..	..
63. Other diseases of the spinal cord	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	..	....	1	..	....	..	..	..	..	..	..	..	..	..	1	..	..
64. Cerebral hæmorrhage, apoplexy	35	..	..	..	..	..	..	..	..	..	5	6	7	10	6	1	20	15	....	16	18	1	....	31	1	2	3	..	4	5	2	6	2	..	5	4	2
65. Softening of the brain	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	....	1	..	....	..	1	....	..	..	..	..	..	..	..	..	..	1	..	..
66. Paralysis without specified cause	16	..	..	..	..	..	..	..	..	..	2	2	8	1	..	..	10	6	....	7	9	....	1	15	....	2	..	1	4	2	..	1	1	2	2	1	..
67. General paralysis of the insane	2	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	1	1	....	1	1	....	....	2	....	1	..	..	..	..	..	..	1	..	..	..	..	..
69. Epilepsy	3	1	..	..	..	..	1	1	..	..	..	..	..	..	..	..	1	2	....	3	..	....	3	..	....	..	..	1	..	..	..	..	..	1	1	..	..
71. Convulsions of infants	17	17	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	6	....	17	..	....	17	..	....	..	1	1	3	1	1	2	..	2	5	..	1
72. Chorea	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	....	..	1	....	1	..	....	..	..	..	..	..	..	1	..	..	..	..	..	..
74. Other diseases of the nervous system	4	..	..	..	..	..	..	1	..	..	..	1	..	1	..	1	2	2	....	1	2	1	1	2	1	1	..	..	..	..	1	1	..	..	..	1	..
76. Diseases of the ears	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	....	1	..	....	1	..	....	..	..	..	1	..	..	..	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	150	....	..	1	..	..	..	..	2	6	5	12	33	36	35	18	2	71	79	....	61	76	13	21	123	6	16	13	16	16	14	5	10	14	6	13	10	17
78. Acute endocarditis	3	....	..	..	..	..	..	..	1	1	..	..	..	..	1	..	..	1	2	....	1	2	....	2	1	....	..	1	1	..	1	..	..	..	..	..	..	..
79. Organic diseases of the heart	97	....	..	1	..	..	..	..	1	5	2	8	23	21	23	11	2	43	54	....	32	53	12	14	78	5	11	9	11	12	9	1	4	8	4	6	6	13
80. Angina pectoris	3	....	..	..	..	..	..	..	..	..	..	1	..	..	1	..	1	1	2	....	2	1	....	....	3	....	..	1	..	..	..	..	..	..	..	1	1	..
81. Diseases of the Arteries, atheroma, aneurysm, etc.	41	....	..	..	..	..	..	..	..	..	..	2	10	12	11	6	..	23	18	....	20	20	1	3	37	1	3	2	1	4	1	..	6	5	1	5	4	3
82. Embolism and thrombosis	2	....	..	..	..	..	..	..	..	..	1	..	....	1	..	..	..	....	2	....	2	..	....	....	2	....	1	..	..	..	..	1	..	..	..	..	..	..
83. Diseases of the veins (varices, hemorrhoids, phlebitis, etc.)	1	....	..	..	..	..	..	..	..	..	..	1	....	..	..	..	..	....	1	....	1	..	....	1	..	....	..	..	..	..	..	..	..	1	..	..	..	..
84. Diseases of the lymphatic system (lymphangitis, etc.)	1	....	..	..	..	..	..	..	..	..	..	..	....	1	..	..	..	1	..	....	1	..	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
85. Hæmorrhage; other diseases of the circulatory system	2	....	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	2	..	....	2	..	....	....	1	1	..	..	..	..	..	..	..	..	..	1	..	1
IV.—Diseases of the Respiratory System.																																						
Group Total	145	34	18	2	6	1	6	1	1	12	6	11	15	11	11	6	1	79	66	....	105	38	2	84	59	2	11	25	23	16	11	8	6	3	8	8	10	16
87. Diseases of the larynx	2	....	..	..	1	..	..	..	..	..	..	..	1	....	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	..	..	..	..	..	1	1	..
89. Acute bronchitis	6	3	..	..	1	..	..	..	..	..	..	..	..	..	1	1	..	2	4	....	5	1	....	4	2	....	1	1	1	..	..	..	..	..	..	1	..	2
90. Chronic bronchitis	10	3	1	..	..	..	1	..	..	1	..	..	1	..	3	..	..	5	5	....	10	....	....	6	4	....	1	4	3	..	..	..	..	..	..	1	..	1
91. Broncho-pneumonia	32	11	8	..	1	..	2	..	..	1	1	..	4	1	1	2	..	13	19	....	26	6	....	25	7	....	1	10	7	4	1	2	3	1	..	2	1
92. Pneumonia	77	15	8	2	3	1	3	..	1	9	3	7	8	8	6	3	..	48	29	....	55	20	2	44	31	2	5	10	10	11	9	4	2	1	3	6	5	11
93. Pleurisy	7	....	1	..	..	..	..	..	..	..	2	2	....	1	..	..	1	4	3	....	3	4	....	1	6	....	1	..	1	..	..	1	..	..	2	..	2	..
94. Pulmonary congestion, pulmonary apoplexy	4	2	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	2	2	....	2	2	....	2	2	....	2	..	..	..	..	1	..	..	..	1	..	..
96. Asthma	5	....	..	..	..	..	..	..	..	..	1	1	1	1	2	..	..	3	2	....	....	5	....	....	5	....	..	..	..	..	1	..	1	1	1	..	..	1
98. Other diseases of the respiratory system (tuberculosis excepted)	2	....	..	..	..	..	1	..	..	1	..	..	....	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	1	1	..	..	..	..	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
XI.—Diseases of Early Infancy.																																						
Group Total	138	138	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	75	63	....	138	....	....	138	....	....	17	7	8	12	7	7	11	15	14	13	15	12
151. Congenital debility, icterus, and sclerema	133	133	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	72	61	....	133	....	....	133	....	....	15	6	7	12	7	7	11	15	14	13	14	12
152. Other diseases peculiar to early infancy	5	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	2	....	5	....	....	5	....	....	2	1	1	..	..	..	..	..	..	..	1	..
154. **XII.—Old Age.**																																						
Group Total	85	....	..	..	..	..	..	..	..	....	..	..	....	..	12	43	..	42	43	....	22	53	10	11	69	5	7	7	10	9	5	6	7	7	7	6	7
XIII.—Affections Produced by External Causes.																																						
Group Total	71	2	1	1	2	4	2	..	5	14	16	8	7	3	1	4	1	54	17	....	36	31	4	29	34	8	5	1	7	5	8	5	6	6	7	11	3	7
155. Suicide by poison	5	....	..	..	..	..	..	..	..	3	1	..	....	..	1	..	..	3	2	....	1	4	....	2	3	....	..	..	1	..	..	..	1	1	..	1	1
158. Suicide by drowning	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
159. Suicide by firearms	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	2	....	....	2	....	....	....	2	....	..	..	..	1	..	..	..	..	..	1	..	..
165. Other acute poisonings	5	....	1	..	..	..	1	..	1	1	..	1	....	..	..	..	..	3	2	....	2	3	....	4	1	....	1	..	..	..	..	..	..	..	..	..	..	..
167. Burns (conflagration excepted)	7	....	..	..	1	1	..	..	..	....	1	2	....	2	..	..	..	3	4	....	4	3	....	4	3	....	1	..	1	1	..	1	1	..	..	..	..	..
168. Absorption of deleterious gases (conflagration excepted)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
169. Accidental drowning	7	....	..	..	..	1	..	..	2	3	1	..	....	..	..	..	..	6	1	....	6	1	....	4	1	2	..	..	..	..	..	1	2	1	..	2	..	1
170. Traumatism by firearms	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
174. Traumatism by machines	2	....	..	..	..	..	..	..	..	....	1	1	....	..	..	..	..	2	....	....	....	2	....	1	1	....	..	..	..	..	2	..	..	..	..	..	..	..
175. Traumatism by other crushing (vehicles, rail road, landslides, etc.)	25	....	..	1	1	1	..	2	3	9	2	3	1	..	1	..	23	2	....	9	13	3	9	12	4	1	1	4	2	3	1	2	..	4	4	2	1
181. Electricity (lightning excepted)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
182. Homicide by firearms	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
185. Fractures (cause not specified)	8	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
186. Other external violence	5	2	..	..	..	1	..	..	..	....	..	..	1	..	..	..	1	5	....	....	4	....	1	3	1	1	..	..	..	2	..	..	1	..	2	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	29	2	2	..	2	..	1	..	..	4	2	5	6	4	..	..	1	20	9	....	19	8	2	17	12	....	1	3	2	1	3	..	1	3	4	3	3	5
188. Sudden death	4	....	..	..	..	..	..	..	..	....	1	..	2	1	..	..	..	4	....	....	4	....	....	3	1	....	..	..	..	..	..	..	..	..	..	..	2	2
189. Cause of death not specified or ill-defined	25	2	2	..	2	..	1	..	..	4	1	5	4	3	..	..	1	16	9	....	15	8	2	14	11	....	1	3	2	1	3	..	1	3	4	3	1	3
Still-Births.																																						
Not included in totals	153	153	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	104	43	6	153	....	....	153	....	....	11	9	16	10	17	10	17	17	12	11	12	11

CAUSES OF DEATH IN THE CITY OF KINGSTON, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	400	73	10	.....	5	2	11	5	5	30	31	25	42	56	53	45	7	212	188	.....	254	88	58	171	196	33	29	21	38	49	38	27	40	34	33	26	33	32
I.—General Diseases.																																						
Group Total	102	11	1	..	3	1	5	1	5	9	14	8	18	11	12	2	1	51	51	....	71	20	11	42	48	12	9	8	11	13	8	4	10	9	7	5	10	8
1. Typhoid fever	6	....	..	..	..	..	..	..	1	....	2	2	1	..	..	..	..	4	2	....	4	2	....	2	3	1	..	1	1	1	..	..	1	1	1	..	..	..
7. Scarlet fever	2	....	..	..	1	..	..	..	1	....	..	..	..	..	..	..	..	1	1	....	2	..	....	2	..	....	..	..	1	..	..	..	..	..	..	..	..	1
8. Whooping cough	8	8	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	5	3	....	8	..	....	8	..	....	2	..	..	..	..	..	..	2	3	1	..	..
9. Diphtheria and croup	6	....	..	..	1	1	4	..	..	....	..	..	..	..	..	..	..	2	4	....	6	..	....	6	..	....	..	..	..	..	..	..	1	1	..	1	2	1
10. Influenza	5	2	..	..	..	..	..	..	1	....	1	1	....	..	..	..	..	3	2	....	4	1	....	3	1	1	..	..	1	1	1	..	..	1	..	1	..	..
14. Dysentery	1	....	..	..	..	..	..	..	..	....	..	..	..	..	..	1	..	....	1	....	1	..	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
20. Purulent infection and septicæmia	4	....	..	..	..	..	..	..	..	....	1	..	2	1	..	..	..	2	2	....	2	....	2	....	3	1	..	..	..	3	..	..	..	..	..	..	1	..
24. Tetanus	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	24	....	..	..	..	..	..	..	1	8	6	3	2	1	3	..	..	14	10	....	13	7	4	8	13	3	2	3	5	1	4	1	3	..	..	2	3	..
29. Acute miliary tuberculosis	1	....	1	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
30. Tuberculous meningitis	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
34. Tuberculosis of other organs.	2	....	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	....	2	....	2	....	....	1	1	....	..	..	..	1	..	..	..	..	..	..	..	1
37. Syphilis	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	12	....	..	..	..	..	..	..	..	....	..	2	4	2	4	..	..	5	7	....	9	2	1	1	10	1	1	2	..	1	2	..	2	1	..	..	1	2
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	4	....	..	..	..	..	..	..	..	....	..	..	1	3	..	..	..	4	....	....	2	....	2	....	2	2	1	..	1	..	..	..	..	1	..	..	..	1
42. Cancer and other malignant tumors of the female genital organs	3	....	..	..	..	..	..	..	..	....	..	..	1	..	2	..	..	....	3	....	3	....	....	2	1	....	..	1	..	..	..	1	1	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
44. Cancer and other malignant tumors of the skin	2	....	..	..	..	..	..	..	..	....	..	..	1	..	..	1	..	1	1	....	1	1	....	....	1	1	..	..	..	1	..	..	1	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	7	....	..	..	1	..	..	..	..	..	1	..	1	1	2	..	1	3	4	....	3	2	2	2	3	2	2	..	..	..	..	1	..	..	..	1	1	2
47. Acute articular rheumatism	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
50. Diabetes	3	....	..	..	..	..	..	..	..	....	1	..	2	..	..	..	..	2	1	....	3	....	....	2	1	....	1	..	..	1	..	..	..	..	..	..	1	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	4	....	..	..	..	..	..	..	..	....	1	..	1	2	..	..	..	....	4	....	1	3	....	....	4	....	..	1	..	1	..	1	1	..	..	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	34	2	1	..	1	..	1	..	..	2	2	2	5	8	6	4	..	14	20	....	16	10	8	11	21	2	2	1	2	3	3	3	5	3	2	1	5	4
61. Simple meningitis	3	2	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	2	....	3	..	....	2	1	....	1	..	..	..	..	..	..	..	1	..	..	1
62. Locomotor ataxia	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	1	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..
63. Other diseases of the spinal cord	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	....	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..
64. Cerebral hæmorrhage, apoplexy	15	..	..	..	..	..	..	..	..	..	..	1	2	4	6	2	..	6	9	....	3	7	5	2	13	....	1	1	..	2	3	2	1	1	1	1	1	1
65. Softening of the brain	2	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	1	1	....	1	1	....	1	1	..	..	..	..	..	..	..	..	1	..	..	1	..
66. Paralysis without specified cause	6	..	..	..	..	..	..	..	..	1	..	1	..	3	..	1	..	3	3	....	2	2	2	2	4	..	..	..	..	2	..	..	..	2	..	1	..	1
69. Epilepsy	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	....	1	..	....	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..
71. Convulsions of infants	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	..	....	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..
74. Other diseases of the nervous system	3	..	..	..	1	..	..	..	..	..	1	..	..	1	..	..	..	1	2	....	3	..	....	2	1	..	..	..	..	..	..	..	1	..	..	..	1	1
76. Diseases of the ears	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	....	1	..	....	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	65	..	..	..	..	..	1	1	..	5	3	5	5	18	13	12	2	37	28	....	26	24	15	12	44	9	3	4	8	9	8	4	6	3	7	4	5	4
78. Acute endocarditis	4	..	..	..	..	..	..	..	..	2	..	..	..	1	..	1	..	4	..	....	2	1	1	....	4	....	1	..	..	3	..	..	..	..	..	..	..	..
79. Organic diseases of the heart	41	..	..	..	..	..	1	1	..	2	3	5	4	15	5	3	2	21	20	....	20	11	10	11	24	6	2	3	5	1	4	2	5	2	3	3	5	3
80. Angina pectoris	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	....	1	..	....	....	1	..	..	..	..	1	..	..	..	..	..	..	..	..
81. Diseases of the Arteries, atheroma, aneurysm, etc.	17	..	..	..	..	..	..	..	..	..	..	..	..	1	8	8	..	10	7	....	3	11	3	1	14	2	..	1	2	1	3	2	1	1	1	1	..	1
82. Embolism and thrombosis	2	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	1	1	....	....	1	1	....	1	1	..	..	1	..	1	..	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	48	4	3	..	..	..	..	1	..	3	5	5	6	7	6	7	3	22	26	....	25	14	9	19	27	2	5	2	4	9	5	3	3	3	3	2	2	7
89. Acute bronchitis	4	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	4	..	....	3	....	1	2	2	....	1	..	..	1	2	..	..	..	..	..	..	..
90. Chronic bronchitis	7	..	..	..	..	..	..	..	..	..	..	1	..	2	2	..	2	2	5	....	3	3	1	3	4	....	..	..	..	1	..	1	1	..	1	2	..	1
91. Broncho-pneumonia	3	..	..	..	..	..	..	..	..	..	..	..	..	..	1	2	..	1	2	....	1	2	....	2	1	....	1	..	..	1	..	..	..	..	..	..	..	1
92. Pneumonia	30	2	3	..	..	..	..	1	..	3	4	2	5	3	3	3	1	12	18	....	17	8	5	11	17	3	2	2	4	4	3	2	1	3	2	..	2	5
93. Pleurisy	2	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	1	1	....	....	....	2	1	1	....	1	..	..	..	..	..	..	1	..	..	..	..
96. Asthma	2	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	2	..	....	1	1	....	....	2	....	..	..	..	2	..	..	..	..	..	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	20	4	2	..	1	..	3	..	..	2	1	2	3	1	..	1	..	15	5	....	17	....	3	14	4	2	1	..	3	2	2	1	3	2	2	2	2	..
99. Diseases of the mouth and adnexa	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	....	2	..	....	2	..	....	..	..	1	..	..	..	..	..	..	1	..	..
102. Ulcer of the stomach	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	....	1	..	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
104. Diarrhœa and enteritis (under 2 years)	3	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	....	3	..	....	3	..	....	..	..	..	1	..	..	..	..	..	1	..	..
105. Diarrhœa and enteritis (2 years and over)	4	..	..	..	1	..	..	..	..	..	..	..	1	1	..	1	..	4	..	....	2	..	2	1	..	....	1	..	..	..	1	..	1	1	1	..	..	..
108. Appendicitis and typhlitis	6	..	..	..	..	..	3	..	..	2	..	1	..	..	..	..	..	3	3	....	6	..	....	5	1	....	1	..	1	1	..	1	..	1	..	1	..	..
109. Hernias, intestinal obstructions	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	....	1	..	....	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..
110. Diseases of the intestines	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	..	....	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..
115. Other diseases of the liver	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	....	1	..	....	....	1	..	..	..	..	..	..	..	..	1	..	..	..	..
118. Other diseases of the digestive system (cancer and tuberculosis excepted)	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	....	....	..	1	....	..	1	..	..	..	..	..	..	..	..	1	..	..	..

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KINGSTON—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
XIII.—Affections Produced by External Causes.																																						
Group Total	18	1	1	..	..	1	..	2	..	5	..	2	2	2	..	1	1	15	3	....	12	3	3	8	7	3	1	..	2	3	5	1	1	2	1	1	1	..
159. Suicide by firearms	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
169. Accidental drowning	2	....	..	..	..	1	..	1	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	..	..	..	..	1	..	..	1	..	..	..	..
172. Traumatism by fall	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	3	....	..	..	..	..	..	1	..	....	..	1	....	1	..	..	..	2	1	....	2	1	....	1	1	1	..	..	..	..	1	1	..	1	..	..	..
181. Electricity (lightning excepted)	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
185. Fractures (cause not specified)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
186. Other external violence	9	....	1	..	..	..	..	..	..	3	..	1	1	1	..	1	1	8	1	....	4	2	3	3	4	2	..	..	2	3	3	..	..	1	..	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	10	....	2	..	..	..	1	..	..	1	1	..	1	3	1	..	..	8	2	....	7	3	....	6	4	....	1	..	..	..	1	..	1	1	1	2	2	1
187 Ill-defined organic disease	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
189. Cause of death not specified or ill-defined	9	....	2	..	..	..	1	..	..	1	1	..	1	3	..	..	..	8	1	....	7	2	....	6	3	....	1	..	..	..	1	..	1	1	1	2	1	1
Still-Births.																																						
Not included in totals	25	25	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	16	7	2	25	....	....	25	....	....	5	2	4	1	3	..	2	2	1	2	1	2

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	670	128	12	4	1	3	13	6	15	44	38	44	59	92	119	90	12	345	325	.....	407	221	42	257	385	28	56	50	62	62	53	50	55	46	70	53	55	49
I.—General Diseases.																																						
Group Total	148	4	1	3	1	2	5	2	6	27	17	15	19	17	22	4	3	75	73	....	94	51	3	52	89	7	12	15	11	13	12	8	11	11	12	12	16	15
1. Typhoid fever	5	....	..	..	..	..	..	..	..	1	1	1	1	..	..	..	1	4	1	....	3	2	....	2	2	1	1	1	..	..	..	..	1	..	1	1	..
6. Measles	1	....	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
7. Scarlet fever	3	....	..	..	1	..	1	..	..	....	1	..	....	..	..	..	..	3	....	....	3	....	....	2	1	....	..	..	..	1	..	..	1	..	..	..	..	1
8. Whooping cough	3	1	..	1	..	..	1	..	..	....	..	..	....	..	..	..	..	....	3	....	3	....	....	3	....	....	..	..	..	..	..	..	..	..	1	1	1
9. Diphtheria and croup	3	....	..	..	..	1	1	1	..	....	..	..	....	..	..	..	..	....	3	....	3	....	....	3	....	....	..	..	..	..	1	..	1	1	..	..	..	..
10. Influenza	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
14. Dysentery	3	....	..	..	..	1	..	..	..	....	..	..	....	..	..	2	..	....	3	....	....	3	....	1	2	....	..	..	..	..	1	..	1	1	..	..	..	..
18. Erysipelas	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	5	....	..	..	..	..	..	..	..	....	2	..	1	..	2	..	..	2	3	....	2	3	....	....	5	....	..	..	..	1	1	..	..	..	1	2	..	..
28. Tuberculosis of the lungs	43	....	..	..	..	..	..	2	20	5	6	4	2	3	..	1	18	25	....	36	7	....	19	24	....	3	6	4	4	2	1	3	2	4	2	6	6
29. Acute miliary tuberculosis	1	....	..	..	..	..	..	1	....	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
30. Tuberculous meningitis	5	2	..	2	..	1	..	..	..	....	..	..	....	..	..	..	..	....	5	....	5	....	....	5	....	....	1	..	..	..	..	..	1	1	..	1	..	1
34. Tuberculosis of other organs	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
39. Cancer and other malignant tumors of the buccal cavity	6	....	..	..	..	..	..	..	..	....	..	..	1	2	2	1	..	5	1	....	1	4	1	....	6	....	2	..	1	....	3	....	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	11	....	..	..	..	..	..	..	..	....	..	2	3	3	3	....	..	9	2	....	5	6	....	1	8	2	1	1	..	..	1	..	..	3	1	..	3	1
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	4	....	..	..	..	..	..	..	..	....	1	..	....	1	2	..	..	2	2	....	2	2	....	....	2	2	1	1	..	..	..	2	..	..	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	3	....	..	..	..	..	..	..	..	....	1	..	2	..	..	..	..	....	3	....	1	2	....	1	2	....	..	..	..	..	3	..	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	3	....	..	..	..	..	..	..	..	....	..	..	2	..	..	1	..	....	3	....	2	1	....	1	2	....	..	..	..	..	..	..	..	..	1	1	1	..
45. Cancer and other malignant tumors of other organs and of organs not specified	13	....	..	..	..	..	..	..	..	1	..	3	2	4	3	..	..	8	5	....	5	8	....	2	11	....	..	1	1	2	..	1	2	2	..	2	..	2
47. Acute articular rheumatism	5	....	..	..	..	..	1	1	1	2	..	..	....	..	..	..	..	3	2	....	3	....	2	5	....	....	..	1	2	1	..	..	1	..	..	..	..	..
48. Chronic rheumatism and gout	3	....	..	..	..	..	..	..	..	....	..	..	....	..	2	..	..	....	1	....	1	1	....	....	2	....	1	..	..	..	..	..	..	..	1	..	..	..
50. Diabetes	5	....	..	..	..	..	..	..	..	2	..	..	1	2	..	..	..	2	3	....	4	1	....	....	5	....	1	..	1	..	1	..	..	..	1	1	..	..
52. Addison's disease	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
53. Leucæmia	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
54. Anæmia, chlorosis	13	....	..	..	..	..	..	..	1	....	2	1	1	3	5	..	..	8	5	....	6	7	....	2	10	1	1	2	..	1	3	..	2	..	1	..	..	3
55. Other general diseases	4	....	..	..	..	..	..	..	1	....	1	1	1	..	..	..	..	3	1	....	2	2	....	1	2	1	..	1	1	..	..	..	..	..	..	2	..	..
56. Alcoholism (acute or chronic)	2	....	..	..	..	..	..	..	..	....	2	..	....	..	..	..	..	1	1	....	1	1	....	....	2	....	..	1	..	..	..	..	..	..	1	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	67	17	1	..	..	..	3	..	1	3	4	2	6	13	9	6	2	32	35	....	48	16	3	28	38	1	5	5	8	6	7	8	5	3	5	5	2	8
61. Simple meningitis	11	10	..	..	..	..	1	..	..	1	2	..	..	..	..	..	..	9	5	....	14	....	....	12	2	....	1	1	3	2	1	1	2	1	2	..	..	..
62. Locomotor ataxia	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	..	1	....	..	1	....	..	..	..	..	..	..	..	..	..	1	..	..
63. Other diseases of the spinal cord	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	....	1	..	....	1	..	....	..	..	..	..	1	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	24	..	..	..	..	..	..	..	..	2	1	3	6	3	4	2	9	12	....	10	10	1	1	20	....	4	2	2	..	3	2	1	1	2	..	1	3	3
66. Paralysis without specified cause	11	..	..	..	..	..	..	..	..	..	..	1	6	5	2	..	5	9	....	8	5	1	1	12	1	..	1	2	3	1	2	1	..	1	..	1	3
68. Other forms of mental alienation	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	....	1	..	....	1	..	....	..	1	..	..	..	..	..	..	..	..	..	..	..
69. Epilepsy	2	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	1	1	....	2	..	....	2	..	....	..	..	..	..	..	..	1	..	..	1	..	..	..
71. Convulsions of infants	7	6	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	..	....	7	..	....	7	..	....	..	..	1	1	2	1	..	..	2	..	..	..
72. Chorea	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	....	1	..	....	1	..	....	..	..	..	..	..	..	1	..	..	..	..	..
74. Other diseases of the nervous system	5	1	..	..	..	..	..	..	..	2	..	..	1	..	1	..	..	1	4	....	4	....	1	2	3	....	..	..	..	..	..	..	..	..	1	..	..	3
III.—Diseases of the Circulatory System.																																						
Group Total	112	..	..	..	..	..	..	1	..	3	3	12	15	23	34	18	3	63	49	....	57	44	11	16	88	8	14	9	5	17	8	10	9	6	9	4	14	7
78. Acute endocarditis	6	..	..	..	..	..	..	1	..	2	..	..	2	..	1	..	..	3	3	....	6	....	....	3	3	....	1	1	..	..	..	1	2	1	..	..	..	..
79. Organic diseases of the heart	53	..	..	..	..	..	..	..	..	1	3	8	10	13	11	4	3	26	27	....	31	16	6	5	42	6	7	5	2	8	2	4	3	3	4	1	10	1
80. Angina pectoris	3	..	..	..	..	..	..	..	..	..	..	1	..	2	..	..	..	2	1	....	2	1	....	2	1	....	..	..	1	..	1	..	..	..	1	..	..	..
81. Diseases of the Arteries, atheroma, aneurysm, etc.	50	..	..	..	..	..	..	..	..	..	..	3	3	8	22	14	..	32	18	....	18	27	5	6	42	2	6	3	2	9	5	5	4	2	4	3	1	3
IV.—Diseases of the Respiratory System.																																						
Group Total	59	16	4	..	..	..	1	..	2	2	2	2	6	8	8	8	..	28	31	....	35	24	3	25	31	3	6	10	8	3	6	2	3	3	4	8	3	3
89. Acute bronchitis	4	3	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	....	4	..	....	4	..	....	..	1	..	..	..	..	..	..	..	1	..	1	1
90. Chronic bronchitis	9	1	..	..	..	..	..	..	..	1	..	1	1	2	3	..	..	6	3	....	4	4	1	1	7	1	2	..	..	1	..	..	..	..	2	..	..	..
91. Broncho-pneumonia	11	8	1	..	..	..	..	..	..	..	..	..	..	2	1	..	..	3	8	....	8	3	....	8	2	1	1	1	..	2	1	1	1	..	1	2	3	1
92. Pneumonia	25	4	2	..	..	..	..	..	1	1	2	..	4	4	3	4	..	12	13	....	15	9	1	9	15	1	3	7	2	2	1	3	..	2	..	1	3	1
93. Pleurisy	4	..	..	..	..	..	1	..	..	1	..	..	1	1	..	..	..	3	1	....	2	1	1	2	2	....	..	1	2	..	..	..	..	1	..	..	..	..
95. Gangrene of the lung	1	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	1	....	..	1	....	..	1	....	..	..	..	..	..	1	..	..	..	..	..	..
96. Asthma	5	..	..	..	..	..	..	..	1	..	..	..	..	2	1	1	..	1	4	....	2	3	....	1	4	....	..	1	..	1	..	..	1	2	..	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	48	23	5	..	..	..	..	1	1	2	2	2	3	7	2	..	..	23	25	....	38	8	2	30	16	2	2	1	3	2	3	1	5	6	16	6	2	1
99. Diseases of the mouth and adnexa	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	....	..	1	....	..	1	....	..	..	..	..	..	..	..	..	..	1	..	..
102. Ulcer of the stomach	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	....	1	..	....	..	1	....	..	..	..	..	..	..	..	..	..	1	..	..
103. Other diseases of the stomach (cancer excepted)	3	1	..	..	..	..	..	..	..	..	..	..	..	2	..	..	..	2	1	....	2	1	....	1	2	....	..	1	1	1	..	..	..	..	..	..	..	..
104. Diarrhœa and enteritis (under 2 years)	21	21	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	13	....	24	..	....	24	..	....	..	..	1	1	..	..	1	6	11	3	1	..
108. Appendicitis and typhlitis	3	..	..	..	..	..	..	1	1	..	..	..	1	..	..	..	..	2	1	....	2	1	....	2	1	....	..	..	..	..	..	..	..	..	..	..	..	1
109. Hernias, intestinal obstructions	7	..	..	..	..	..	..	..	..	..	2	2	1	1	1	..	..	3	4	....	3	3	1	..	6	1	2	..	1	..	2	..	1	..	1	..	..	..
110. Diseases of the intestines	2	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	....	2	..	....	2	..	....	..	..	..	..	..	1	1	..	..	..	..	..

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LONDON—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
XIII.—Affections Produced by External Causes.																																						
Group Total	25	....	..	1	..	..	2	1	2	1	6	6	1	..	3	1	1	19	6	....	15	10	....	11	14	....	2	1	1	1	1	4	6	..	2	1	2	1
155. Suicide by poison	2	....	..	..	..	..	..	..	..	....	1	1	....	..	..	..	..	....	2	....	1	1	....	....	2	....	1	..	..	..	..	..	..	..	1	..	..	..
156. Suicide by asphyxia	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
157. Suicide by hanging or strangulation	2	....	..	..	..	..	..	..	..	....	1	1	....	..	..	..	..	2	....	....	1	1	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
167. Burns (conflagration excepted)	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	1	....	1	1	....	..	..	..	..	..	1	..	..	1	..	..	..
168. Absorption of deleterious gases (conflagration excepted)	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
169. Accidental drowning	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
172. Traumatism by fall	3	....	..	..	..	..	1	1	1	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
174. Traumatism by machines	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	3	....	....	3	....	....	3	....	....	..	..	..	..	..	2	1	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
176. Injuries by animals	6	....	..	..	..	..	..	..	..	1	2	1	....	..	1	..	1	6	....	....	4	2	....	2	4	....	1	..	..	..	..	1	1	..	1	..	2	..
185. Fractures (cause not specified)	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
186. Other external violence	3	....	..	..	..	..	..	..	..	....	..	1	....	..	1	1	..	1	2	....	....	3	....	....	3	....	..	1	..	1	1	..	..	..	..	..	..	..
	3	....	..	..	..	..	..	..	..	....	..	2	1	..	..	..	..	2	1	....	2	1	....	1	2	....	..	..	..	..	..	2	..	..	1	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	18	2	1	..	..	1	1	..	1	2	2	1	2	3	..	..	2	9	9	....	16	2	....	10	7	1	..	2	2	4	1	2	2	1	1	2	1	..
189. Cause of death not specified or ill-defined	18	2	1	..	..	1	1	..	1	2	2	1	2	3	..	..	2	9	9	....	16	2	....	10	7	1	..	2	2	4	1	2	2	1	1	2	1	..
Still-Births.																																						
Not included in totals	67	67	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	47	17	3	67	....	....	67	....	....	8	5	3	6	2	4	7	8	6	4	5	9

CAUSES OF DEATH IN THE CITY OF NIAGARA FALLS, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	119	24	4	3	1	.....	2	.....	6	7	5	7	17	22	15	6	.....	66	53	.....	79	38	2	50	66	3	10	5	12	6	10	17	9	9	20	10	6	5
I.—General Diseases.																																						
Group Total	22	1	1	..	1	..	1	..	3	3	1	3	2	4	2	..	..	13	9	....	14	7	1	9	12	1	4	1	1	..	2	5	2	..	5	2	..	..
1. Typhoid fever	4	....	..	..	..	..	..	..	1	1	..	1	....	1	..	..	..	3	1	....	2	2	....	1	3	....	1	..	..	..	1	1	..	..	1	..	..	..
8. Whooping cough	2	1	1	..	..	..	..	..	..	..	..	..	....	..	..	..	..	2	..	....	2	..	....	2	..	....	1	1	..	..	..	..	..	..	..	..	..	..	..
9. Diphtheria and croup	2	....	..	..	1	..	1	..	..	..	..	..	....	..	..	..	..	2	..	....	2	..	....	2	..	....	1	1	..	..	..	..	..	..	..	..	..	..	..
24. Tetanus	2	....	..	..	..	..	..	..	..	..	..	..	....	..	..	..	..	1	1	....	1	1	....	..	2	....	..	..	..	..	..	..	..	..	1	..	..	..
28. Tuberculosis of the lungs	4	....	..	..	..	..	..	..	2	1	..	..	1	..	..	..	..	2	2	....	3	1	....	..	1	....	..	..	..	..	1	..	..	..	1	..	..	..
29 Acute miliary tuberculosis	1	....	..	..	..	..	..	..	..	..	..	..	....	1	..	..	..	....	1	....	....	1	....	....	1	....	1	..	..	..	..	1	..	2	..	..	..	..
30. Tuberculous meningitis	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	4	....	..	..	..	..	..	..	..	..	..	1	....	..	..	..	..	2	2	....	2	1	1	....	3	1	..	..	..	..	..	2	1	..	..	1	..	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	..	..	..	....	1	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	..	1	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	22	3	..	2	..	..	1	..	2	....	..	1	5	5	2	1	..	8	14	....	16	6	....	10	12	....	1	3	3	2	2	1	2	4	2	1	1	..
61. Simple meningitis	3	1	..	..	..	..	..	..	2	....	..	..	....	..	..	..	..	1	2	....	2	1	....	3	....	....	..	..	..	..	..	..	..	1	1	..	1	..
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
63. Other diseases of the spinal cord	2	....	..	1	..	..	1	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	1	..	..	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	14	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	....	....	....	....	....	....	....	....	....	..	..	..	..	..	..	..	1	1	..	..	..
71. Convulsions of infants	2	2	..	..	..	..	..	..	..	....	..	..	5	5	2	1	..	5	9	....	9	5	....	2	12	....	2	2	3	2	1	..	2	2	..	1	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	14	....	..	..	..	..	..	..	..	....	1	..	1	9	3	..	..	12	2	....	7	7	....	1	12	1	1	1	1	..	..	3	2	..	1	2	2	1
78. Acute endocarditis	5	....	..	..	..	..	..	..	..	....	1	..	1	2	1	..	..	3	2	...	2	3	....	....	4	1	..	1	..	..	..	1	2	..	..	..	1	..
79. Organic diseases of the heart	6	....	..	..	..	..	..	..	..	....	..	..	....	4	2	..	..	6	....	....	2	4	....	1	5	....	1	..	1	..	..	..	..	..	..	..	..	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	3	....	..	..	..	..	..	..	..	....	..	..	....	3	..	..	..	3	....	....	3	....	....	....	3	....	..	..	..	..	..	1	..	..	1	1	..	1
IV.—Diseases of the Respiratory System.																																						
Group Total	11	2	2	1	..	..	..	..	..	....	..	..	4	2	..	..	..	7	4	....	7	3	1	5	5	1	1	..	3	1	..	3	..	..	1	..	..	2
90. Chronic bronchitis	2	1	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	1	....	1	....	1	1	1	....	..	..	..	..	..	2	..	..	..	..	..	..
91. Broncho-pneumonia	2	1	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	1	..	..	1	..	..	..	..	..	..	..	..
92. Pneumonia	6	....	1	1	..	..	..	..	..	....	..	..	....	..	..	..	..	3	3	....	4	2	....	2	3	1	..	..	3	..	..	1	..	..	..	..	..	1
93. Pleurisy	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
V.—Diseases of the Digestive System.																																						
Group Total	9	4	1	..	..	..	..	..	..	1	..	1	1	1	..	..	..	6	3	....	8	1	....	6	3	....	..	..	..	..	..	1	..	..	4	3	..	1
103. Other diseases of the stomach (cancer excepted)	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
104. Diarrhœa and enteritis (under 2 years)	4	3	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	1	....	4	....	....	4	....	....	..	..	..	..	..	..	..	..	..	..	..	1
109. Hernias, intestinal obstructions	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	1	....	....	....	....	..	..	..	..	..	1	..	..	3	..	..	..
110. Diseases of the intestines	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
117. Simple peritonitis (non-puerperal)	2	....	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	1	1	....	2	....	....	....	2	....	..	..	..	..	..	..	..	..	1	1	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																					
Group Total	4	....	..	..	..	..	..	..	..	....	..	1	2	1	..	..	..	3	1	....	2	2	....	....	4	....	1	..	..	..	1	..	1	..	..	..	1	..
120. Bright's disease	3	....	..	..	..	..	..	..	..	....	..	..	2	1	..	..	..	3	....	....	1	2	....	....	3	....	1	..	..	..	1	..	..	..	..	..	1	..
131. Cysts and other tumors of the ovary	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
VII.—The Puerperal State.																																					
Group Total	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
136. Other accidents of labor	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
X.—Malformations.																																					
Group Total	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
150. Congenital malformations (still-births not included)	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
XI.—Diseases of Early Infancy.																																					
Group Total	12	12	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	7	5	....	12	....	....	12	....	....	1	..	..	1	2	..	..	2	3	1	2	..
151. Congenital debility, icterus, and sclerema	12	12	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	7	5	....	12	....	....	12	....	....	1	..	..	1	2	..	..	2	3	1	2	..
154. XII.—Old Age.																																					
Group Total	11	....	..	..	..	..	..	..	..	....	..	..	....	..	7	4	..	5	6	....	5	6	....	....	11	....	1	..	1	1	2	1	1	1	1	..	1
XIII.—Affections Produced by External Causes.																																					
Group Total	11	....	..	..	..	..	..	..	1	2	3	1	2	..	1	1	..	4	7	....	5	6	....	5	6	....	....	..	3	..	1	3	1	1	2	..	..	..
165. Other acute poisonings	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
167. Burns (conflagration excepted)	3	....	..	..	..	..	..	..	..	....	1	1	....	..	1	..	..	....	3	....	3	....	....	2	1	....	..	..	..	..	..	..	..	..	1	..	..	..
169. Accidental drowning	3	....	..	..	..	..	..	..	1	....	1	..	....	1	..	..	..	....	3	....	....	3	....	....	1	....	..	..	..	3	..	..	..	..	..	..	..	..
181. Electricity (lightning excepted)	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	2	....	....	....	2	....	1	2	....	..	..	..	..	..	2	1	..	..	..	..	..
186. Other external violence	2	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	2	....	....	....	2	....	1	1	....	..	..	..	..	..	1	1	..	..	..	..	..
XIV.—Ill-Defined Diseases.																																					
Group Total	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
189. Cause of death not specified or ill-defined	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
Still-Births.																																					
Not included in totals	9	9	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	5	4	....	9	....	....	9	....	....	..	..	..	1	2	..	1	3	..	..	2	..

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
		0-1																																			
Grand Total	1,550	494	43	17	11	19	37	18	35	104	117	104	116	158	148	125	4	821	729	.....	1,229	273	48	860	683	7	102	120	125	143	150	114	152	167	132	123	115	107
I.—General Diseases.																																					
Group Total	405	43	10	5	5	11	18	10	22	71	53	48	44	36	24	3	2	205	200	....	299	89	17	208	195	2	19	37	31	23	22	29	30	80	35	40	34	25
1. Typhoid fever	98	....	..	1	..	2	6	3	11	33	15	14	2	8	3	..	..	59	39	....	67	26	5	51	47	....	..	..	..	1	1	..	6	52	12	19	4	3
5. Smallpox	2	2	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	..	..	..	..
6. Measles	2	....	..	..	1	..	..	..	..	....	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
7. Scarlet fever	3	....	..	..	1	..	..	..	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
8. Whooping cough	3	....	..	1	..	1	..	..	..	....	..	..	..	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	..	..	..	..
9. Diphtheria and croup	33	27	4	1	1	..	..	..	..	....	..	..	..	..	..	..	..	19	14	....	33	....	....	33	....	....	..	..	..	..	1	1	..	..	..	..	..	..
10. Influenza	25	4	3	1	3	5	7	2	..	....	..	..	..	..	..	..	..	8	17	....	25	....	....	25	....	....	3	10	1	2	1	..	..	1	2	4	..
13. Cholera nostras	4	....	1	..	..	..	..	..	..	1	1	1	....	..	..	..	..	2	2	....	4	....	....	2	2	....	1	..	1	1	..	..	..	1	..	..	..	..
14. Dysentery	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
18. Erysipelas	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
19. Other epidemic diseases	1	....	..	..	..	..	..	..	..	....	1	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	1	..	..	....	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	4	....	..	..	..	..	..	..	..	1	1	1	1	..	..	..	..	3	1	....	3	1	....	1	3	....	..	..	..	..	..	..	..	..	..	..	..	1
30. Tuberculous meningitis	96	....	1	..	..	1	..	2	11	31	22	10	11	4	2	1	..	50	46	....	70	20	6	42	52	2	3	13	12	9	9	9	11	5	6	6	8	5
31. Abdominal tuberculosis	4	2	..	..	..	1	1	..	..	....	..	..	..	..	..	..	..	1	3	....	4	....	....	4	....	....	..	1	..	..	1	1	..	..	..	..	..	..
32. Pott's disease	2	1	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	..	..	..	..	1	..	..	..
33. White swelling	4	....	..	..	..	..	1	1	..	1	..	1	....	..	..	..	..	3	1	....	4	....	....	3	1	....	..	..	..	..	3	1	....	..	..	..	..	1
34. Tuberculosis of other organs	3	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	2	1	....	1	1	....	1	1	....	..	..	..	..	..	..	..	..	..	..	..	..
36. Rickets	3	....	..	..	..	..	..	..	..	....	2	..	1	..	..	..	..	1	2	....	3	....	....	1	2	....	1	..	1	..	..	..	..	..	1	..	..	..
37. Syphilis	4	1	1	..	..	..	..	..	..	1	..	1	1	..	..	..	..	3	1	....	3	....	1	3	....	....	..	..	..	..	..	..	1	1	..	1	1	..
38. Gonococcus infection	1	....	..	..	..	..	..	..	..	....	..	..	..	..	..	..	1	1	....	....	1	....	....	1	....	....	..	..	..	..	1	1	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	6	....	..	..	..	..	..	..	..	....	..	..	..	1	1	1	..	5	1	....	3	3	....	....	6	....	1	1	..	..	..	..	..	1	..	2	1	..
40. Cancer and other malignant tumors of the stomach, liver	22	....	..	..	..	..	..	..	..	....	..	5	8	3	5	..	1	10	12	....	12	8	2	3	19	....	1	1	2	2	..	2	..	2	6	2	4	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	7	....	..	..	..	..	..	..	..	....	..	2	1	2	2	..	..	2	5	....	5	2	....	2	5	....	1	1	..	1	..	..	..	2	..	..	1	1
42. Cancer and other malignant tumors of the female genital organs	5	....	..	..	..	..	..	..	..	....	1	..	2	1	1	..	..	....	5	....	3	1	1	....	5	....	..	..	1	..	..	..	..	1	1	..	2	..
43. Cancer and other malignant tumors of the breast	8	....	..	..	..	..	..	..	..	....	2	3	3	..	..	..	..	....	8	....	6	2	....	1	7	....	3	..	1	..	..	1	1	..	1	..	1	..
45. Cancer and other malignant tumors of other organs and of organs not specified	22	....	..	..	1	..	1	..	..	....	2	5	6	3	4	..	..	7	15	....	16	5	1	7	15	....	2	2	2	2	1	2	2	1	1	4	..	3
46. Other tumors (tumors of the female genital organs excepted)	1	....	..	..	..	..	..	..	..	....	..	..	..	..	1	..	..	1	....	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
47. Acute articular rheumatism	2	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	1	1	....	2	....	....	1	1	....	..	..	1	..	..	..	..	..	1	..	..	..
48. Chronic rheumatism and gout	7	..	..	..	..	..	..	..	..	..	1	1	1	3	2	..	..	5	2	....	5	2	....	3	4	....	..	..	1	..	..	..	..	2	..	1	1	1
50. Diabetes	9	..	..	..	..	..	..	1	..	1	..	..	1	4	2	..	..	4	5	....	4	5	....	2	7	....	..	1	1	..	1	..	..	..	..	..	..	1
54. Anæmia, chlorosis	11	1	..	..	..	..	1	..	..	..	3	1	3	2	..	..	..	3	8	....	8	2	1	4	7	....	2	1	1	1	..	1	..	..	1	1	2	1
55. Other general diseases	4	2	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	2	2	....	4	....	....	2	2	....	..	..	..	..	..	..	..	..	..	..	..	..
56. Alcoholism (acute or chronic)	7	..	..	..	..	..	..	..	..	..	2	1	2	2	..	..	..	5	2	....	1	6	....	3	4	....	..	..	..	..	1	..	..	..	1	..	2	..
57. Chronic lead poisoning	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	1	..	..	1	1	1	..	1	..	2
59. Other chronic poisonings	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	**114**	18	5	1	1	2	1	1	..	2	7	7	10	18	23	17	1	53	61	....	87	26	1	43	70	1	12	10	13	7	15	13	8	4	7	10	11	4
60. Encephalitis	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
61. Simple meningitis	17	8	2	..	1	1	..	..	..	1	3	..	1	..	..	..	..	6	11	....	15	2	....	14	3	....	..	3	1	2	2	3	..	1	1	3	1	..
62. Locomotor ataxia	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..	1
63. Other diseases of the spinal cord	3	1	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	1	2	....	2	1	....	2	1	....	..	..	..	1	..	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	38	..	..	..	..	..	..	..	..	..	1	3	6	7	10	10	1	22	16	....	24	13	1	4	34	....	6	1	5	3	7	4	2	1	1	3	4	1
65. Softening of the brain	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	....	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
66. Paralysis without specified cause	28	..	..	..	..	..	..	..	..	..	..	..	3	9	10	6	..	11	17	....	20	8	....	4	23	1	2	4	2	1	3	3	..	1	4	4	3	1
69. Epilepsy	4	1	..	..	..	1	..	..	..	..	..	..	..	1	1	..	..	3	1	....	4	....	....	2	2	....	..	..	..	..	..	1	..	1	1	..	1	..
70. Convulsions (non-puerperal)	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
71. Convulsions of infants	11	8	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	6	....	11	....	....	11	....	....	1	2	2	..	..	1	3	..	..	..	2	..
73. Neuralgia and neuritis	2	..	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	2	....	2	....	....	..	..	....	..	1	..	..	..	1	..	..	..	..	..	..
74. Other diseases of the nervous system	5	..	..	..	..	..	1	..	..	1	1	2	..	..	..	..	..	1	4	....	5	....	....	2	3	....	1	..	2	..	1	1	..	..	..	..	..	..
75. Diseases of the eyes and their adnexa	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
76. Diseases of the ears	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	**145**	2	1	..	..	..	2	..	2	5	11	11	20	40	36	15	..	78	67	....	89	48	8	35	109	1	16	13	8	23	16	10	5	12	9	14	5	14
78. Acute endocarditis	14	..	..	..	..	..	..	1	..	..	1	5	2	1	2	2	..	5	9	....	8	6	....	4	9	1	3	1	1	2	1	1	..	2	1	2	..	..
79. Organic diseases of the heart	84	1	1	..	..	..	..	..	1	3	5	8	17	27	17	4	..	43	41	....	52	29	3	24	60	....	9	8	6	11	8	6	2	6	4	9	4	11
80. Angina pectoris	2	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	..	..	..	..	..	1	..	1
81. Diseases of the arteries, atheroma, aneurysm, etc.	40	..	..	..	..	..	..	..	1	....	1	..	1	10	16	11	..	28	12	....	23	12	5	5	35	....	4	3	1	9	6	3	3	4	4	2	1	..
82. Embolism and thrombosis	2	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	1	....	2	....	....	....	2	....	..	1	..	1	..	..	..	..	..	..	..	..
83. Diseases of the veins (varices, hæmorrhoids phlebitis, etc.)	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
84. Diseases of the lymphatic system (lymphangitis etc.)	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
85. Hæmorrhage; other diseases of the circulatory system	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	**156**	50	16	7	..	3	1	1	3	5	9	8	12	19	10	12	..	92	64	....	131	23	2	98	58	....	8	11	21	30	34	11	2	3	6	8	12	10
87. Diseases of the larynx	6	5	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	4	2	....	7	....	....	5	1	....	..	..	..	2	1	2	..	..	1	..	..	..
88. Diseases of the thyroid body	2	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	1	....	2	....	....	....	2	....	..	..	..	1	1	..	..	..	..	..	..	..
89. Acute bronchitis	11	4	2	..	..	1	..	..	..	..	..	1	..	1	1	1	..	5	6	....	7	4	....	7	4	....	1	..	..	2	3	3	..	..	1	..	1	..
90. Chronic bronchitis	6	..	..	..	..	..	..	..	..	..	..	..	2	1	2	1	..	2	4	....	3	3	....	1	5	....	..	1	1	1	..	..	..	..	..	2	1	..
91. Broncho-pneumonia	32	20	3	3	..	1	..	1	1	1	..	..	1	..	..	1	..	20	12	....	32	....	....	30	2	....	1	1	4	6	11	..	..	1	1	2	3	2

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OTTAWA—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
IX.—Diseases of the Bones and of the Organs of Locomotion.																																						
Group Total	2	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	1	..	1	..	..	..	..	..
146. Diseases of the bones (tuberculosis excepted)	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	....	1	....	....	..	1	....	..	..	..	..	1	..	..	..	..	..	..	..
147. Diseases of the joints (tuberculosis and rheumatism excepted)	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	..	....	..	..	..	..	..	1	..	..	..	..	..	..
X.—Malformations.																																						
Group Total	13	13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	5	....	13	....	....	13	..	....	1	1	..	2	..	..	1	..	4	1	3	..
150. Congenital malformations (still-births not included)	13	13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	5	....	13	....	....	13	..	....	1	1	..	2	..	..	1	..	1	1	3	..
XI.—Diseases of Early Infancy.																																						
Group Total	246	246	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	135	111	....	246	....	....	246	..	....	12	12	18	18	32	15	45	24	17	17	23	13
151. Congenital debility, icterus, and sclerema	235	235	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	126	109	....	235	....	....	235	..	....	12	12	17	17	27	13	45	22	17	17	23	13
152. Other diseases peculiar to early infancy	10	10	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	8	2	....	10	....	....	10	..	....	..	..	1	1	4	2	..	2	..	..	..	..
153. Lack of care	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	....	1	....	....	1	..	....	..	..	..	..	1	..	..	..	..	..	..	..
154. XII.—Old Age.																																						
Group Total	99	....	..	..	..	..	..	..	..	..	..	..	....	..	35	64	..	49	50	....	51	38	10	6	92	1	13	13	11	11	1	3	8	5	11	7	4	12
XIII.—Affections Produced by External Causes.																																						
Group Total	56	1	..	3	1	2	6	2	1	7	10	9	3	9	1	1	..	43	13	....	42	10	4	31	25	....	2	5	5	2	4	4	10	6	3	4	4	7
155. Suicide by poison	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
159. Suicide by firearms	3	....	..	..	..	..	..	..	..	1	1	..	1	..	..	..	..	3	....	....	3	....	....	1	2	....	..	..	..	..	3	..	..	..	..	..	..	..
165. Other acute poisonings	3	....	..	1	..	..	..	..	..	....	1	1	....	..	..	..	..	3	....	....	2	1	....	2	1	....	..	..	..	..	..	1	1	1	..	..	..	..
167. Burns (conflagration excepted)	7	....	..	1	1	2	..	..	..	....	..	..	....	..	1	..	..	2	5	....	7	....	....	4	1	....	1	..	2	..	..	1	1	..	..	..	..	1
169. Accidental drowning	7	....	..	1	..	..	3	..	..	2	..	..	....	1	..	..	..	6	1	....	6	1	....	6	1	....	..	..	..	..	..	1	2	2	..	1	1	..
170. Traumatism by firearms	2	....	..	..	..	..	..	..	..	....	..	1	....	1	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	1	..	..	..	..	1	..	..
172. Traumatism by fall	6	....	..	..	..	..	..	..	..	1	..	1	1	2	..	1	..	4	2	....	2	2	2	2	4	....	1	1	1	..	..	..	1	..	1	..	1
174. Traumatism by machines	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	7	....	..	..	..	..	..	1	..	....	1	2	....	3	..	..	..	6	1	....	7	....	....	1	6	....	..	..	1	1	..	1	1	1	..	..	..	2
178. Excessive cold	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
179. Effects of heat	2	....	..	..	..	..	..	..	..	....	1	1	....	..	..	..	..	2	....	....	1	1	....	1	1	....	..	..	..	..	..	..	2	..	..	..	..	..
182. Homicide by firearms	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
184. Homicide by other means	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	....	1	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
185. Fractures (cause not specified)	8	1	..	..	..	..	1	..	..	....	3	1	1	1	..	..	..	6	2	....	7	....	1	4	1	....	..	1	..	..	..	..	1	..	1	2	1	2
186. Other external violence	6	....	..	..	..	..	..	1	1	....	2	1	....	1	..	..	..	5	1	....	2	4	....	4	2	....	..	1	..	1	..	..	..	1	1	..	1	1
XIV.—Ill-Defined Diseases.																																						
Group Total	30	4	3	..	2	..	1	..	1	1	2	5	4	7	..	..	..	19	11	....	30	....	....	14	16	....	3	2	2	7	3	4	3	..	2	2	2
187. Ill-defined organic disease	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
188. Sudden death	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	..	..	..	..	..	..	1	1
189. Cause of death not specified or ill-defined	27	4	3	..	2	..	1	..	1	....	2	4	4	6	..	..	..	16	11	....	27	....	....	13	14	....	3	2	2	6	3	4	3	..	1	2	1
Still-Births.																																						
Not included in totals	161	161	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	103	58	....	161	....	....	161	....	....	13	12	21	12	14	14	13	16	8	12	12	14

CAUSES OF DEATH IN THE CITY OF PETERBORO, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	224	29	6	2	1	..	4	4	2	16	18	21	19	24	44	31	3	116	108	1	152	64	8	82	120	13	22	15	22	14	21	20	19	17	11	16	26	21
I.—General Diseases.																																						
Group Total	63	5	2	..	1	..	1	1	1	7	9	11	11	4	5	4	1	32	31	....	44	17	2	23	33	7	3	7	3	5	5	6	7	6	2	2	11	6
1. Typhoid fever	2	....	..	..	..	..	..	1	..	....	1	..	....	..	..	..	..	2	....	....	1	....	1	1	....	1	..	1	..	..	..	..	..	1	..	..	..	..	..
8. Whooping cough	2	2	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	1	..	1	..
10. Influenza	1	....	..	..	..	..	..	..	..	....	..	..	..	..	..	1	..	1	....	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
14. Dysentery	1	....	1	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
18. Erysipelas	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
28. Tuberculosis of the lungs	17	....	..	..	..	..	1	..	..	3	5	3	3	2	..	..	..	11	6	....	15	1	1	5	10	2	1	1	1	3	2	2	1	2	..	..	2	2
30. Tuberculous meningitis	4	1	1	..	1	..	..	..	..	1	..	..	..	..	..	..	..	3	1	....	1	....	....	4	....	....	..	..	..	1	1	..	1	..	..	..	1	..
31. Abdominal tuberculosis	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
34. Tuberculosis of other organs.	3	....	..	..	..	..	..	..	1	1	1	..	....	..	..	..	..	1	2	....	2	1	....	3	....	....	..	..	..	..	..	..	1	..	..	..	1	..
36. Rickets	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
37. Syphilis	1	....	..	..	..	..	..	..	..	....	..	..	1	....	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	3	....	..	..	..	..	..	..	..	....	..	1	1	1	..	..	..	1	2	....	1	2	....	....	3	....	..	..	..	..	..	..	1	..	..	1	1	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	4	....	..	..	..	..	..	..	..	....	..	..	1	..	1	2	..	2	2	....	1	3	....	....	4	....	..	1	..	..	..	..	1	..	..	1	1	
42. Cancer and other malignant tumors of the female genital organs	3	....	..	..	..	..	..	..	..	1	..	..	1	1	..	..	..	....	3	....	3	....	....	2	1	....	..	..	..	..	..	1	..	..	..	..	..	2
43. Cancer and other malignant tumors of the breast	3	....	..	..	..	..	..	..	..	....	..	1	1	..	..	1	..	....	3	....	2	1	....	....	3	....	..	1	..	..	..	1	..	1	..	..	..	..
44. Cancer and other malignant tumors of the skin	1	....	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	1	....	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
47. Acute articular rheumatism	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
50. Diabetes	3	....	..	..	..	..	..	..	..	....	1	..	..	1	..	1	..	3	....	....	....	3	....	....	3	....	..	..	..	..	..	..	1	..	..	..	2	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	4	....	..	..	..	..	..	..	1	2	..	1	..	..	..	..	..	1	3	....	2	1	....	2	1	1	1	..	..	..	..	1	..	..	..	..	..	..
56. Alcoholism (acute or chronic)	2	....	..	..	..	..	..	..	..	....	..	1	1	..	..	..	..	1	1	....	1	1	....	....	1	1	..	..	..	..	..	..	1	..	..	..	..	1

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	15	1	..	1	..	..	1	..	..	....	1	..	2	2	4	3	..	9	0	....	10	5	....	5	10	....	4	1	1	1	1	2	1	1	1	..	..	2
61. Simple meningitis	2	....	..	..	..	..	1	..	..	....	..	..	1	..	..	..	..	....	2	....	1	1	....	1	1	....	2	..	..	..	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	7	....	..	..	..	..	..	..	..	....	..	..	1	2	1	3	..	4	3	....	4	3	....	1	6	....	2	..	1	..	1	..	1	1	1	..	..	..
66. Paralysis without specified cause	3	....	..	..	..	..	..	..	..	....	1	..	....	..	2	..	..	2	1	....	2	1	....	1	2	....	..	..	..	1	..	1	..	..	..	..	..	1
71. Convulsions of infants	2	1	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	..	1	..	..	..	1	..	..	..	..	..	..
73. Neuralgia and neuritis	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
III.—Diseases of the Circulatory System.																																						
Group Total	36	....	..	..	..	..	..	..	..	1	1	6	....	9	13	5	1	20	16	....	19	17	....	8	27	1	2	2	6	..	4	1	4	3	2	4	2	5
78. Acute endocarditis	3	....	..	..	..	..	..	..	..	....	..	2	....	1	..	..	..	2	1	....	2	1	....	1	2	....	..	2	1	..	..	..	..	..	..	..	..	..
79. Organic diseases of the heart	19	....	..	..	..	..	..	..	..	1	1	4	....	5	5	2	1	7	12	....	11	8	....	4	15	....	2	..	3	..	2	..	3	3	2	..	1	3
81. Diseases of the arteries, atheroma, aneurysm, etc.	14	....	..	..	..	..	..	..	..	....	..	..	....	3	8	3	..	11	3	....	6	8	....	3	10	1	..	..	2	..	2	1	1	..	1	4	1	2
IV.—Diseases of the Respiratory System.																																						
Group Total	15	2	..	..	..	..	..	..	..	3	1	1	1	1	5	1	..	8	7	....	10	4	1	6	8	1	2	2	4	1	..	1	..	1	..	1	2	1
90. Chronic bronchitis	3	....	..	..	..	..	..	..	..	....	..	..	1	..	1	1	..	1	2	....	1	2	....	....	3	....	1	..	1	..	..	..	..	..	..	1	..	..
91. Broncho-pneumonia	4	2	..	..	..	..	..	..	..	....	..	1	....	..	1	..	..	1	3	....	3	1	....	2	2	....	1	1	1	..	..	1	..	..	..	..	..	..
92. Pneumonia	8	....	..	..	..	..	..	..	..	3	1	..	....	1	3	..	..	6	2	....	6	1	1	4	3	1	..	1	2	1	..	..	..	1	..	..	2	1
V.—Diseases of the Digestive System.																																						
Group Total	20	5	4	1	..	..	1	1	..	1	..	1	2	2	..	1	1	9	11	....	19	....	1	15	4	1	4	..	1	1	1	1	1	1	3	3	3	1
101. Diseases of the œsophagus	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
102. Ulcer of the stomach	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	5	1	1	..	..	..	..	..	..	....	..	..	....	2	..	..	1	3	2	....	4	....	1	3	1	1	1	..	..	..	..	..	..	1	1	1	..	1
104. Diarrhœa and enteritis (under 2 years)	7	4	3	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	5	....	7	....	....	7	....	....	1	..	1	..	..	1	..	..	1	..	3	..
108. Appendicitis and typhlitis	3	....	..	..	..	..	..	1	..	1	..	1	....	..	..	..	..	1	2	....	3	....	....	2	1	....	..	..	..	..	1	1	..	1	..	..	..	..
110. Diseases of the intestines	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
113. Cirrhosis of the liver	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
117. Simple peritonitis (non-puerperal)	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	12	....	..	..	..	..	..	..	..	....	2	1	1	2	3	3	..	5	7	....	6	6	....	2	8	2	1	1	2	..	2	3	..	..	..	1	1	1
119. Acute nephritis	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
120. Bright's disease	7	....	..	..	..	..	..	..	..	....	1	..	....	1	2	3	..	3	4	....	3	4	....	2	5	....	1	..	2	..	1	2	..	..	..	..	1	..
123. Calculi of the urinary passages	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	..	1	..	..
126. Diseases of the prostate	2	....	..	..	..	..	..	..	..	....	..	1	....	..	1	..	..	1	1	....	1	1	....	....	1	1	..	1	..	..	..	1	..	..	..	..	..	..
130. Other diseases of the uterus	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1. 0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	313	94	23	4	2	1	5	3	11	42	51	23	21	11	10	6	6	197	116	.....	223	58	32	189	96	38	13	17	14	17	27	23	44	52	47	17	11	31
I.—General Diseases.																																						
Group Total	93	7	6	1	..	1	3	1	5	13	28	9	12	3	1	1	2	63	30	....	67	19	7	47	37	9	2	6	1	7	6	11	12	8	15	6	5	14
1. Typhoid fever	23	....	..	..	..	..	1	1	2	7	9	1	1	..	..	..	1	22	1	....	14	6	3	14	6	3	..	2	..	..	..	5	2	..	1	3	1	9
6. Measles	3	2	..	..	..	1	..	..	..	....	..	..	....	..	..	..	..	1	2	....	3	....	....	3	....	....	..	2	..	..	..	..	1	..	..	..	..	..
8. Whooping cough	6	2	4	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	3	....	6	....	....	6	....	....	..	..	..	..	..	..	2	1	..	..	..	1
9. Diphtheria and croup	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	2	..	..	..
10. Influenza	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
18. Erysipelas	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	....	1	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
20. Purulent infection and septicæmia	3	....	..	..	..	..	..	..	..	....	2	..	1	..	..	..	..	3	....	....	1	2	....	....	2	1	..	..	..	..	2	1	..	..	..	..	..	..
24. Tetanus	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
28. Tuberculosis of the lungs	30	2	1	..	..	..	1	..	1	4	15	2	4	..	..	..	..	19	11	....	21	7	2	16	11	3	2	1	1	3	4	3	3	3	4	2	2	..
30. Tuberculous meningitis	2	....	1	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	1	..	..	..	..	1
34. Tuberculosis of other organs	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
37. Syphilis	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
40. Cancer and other malignant tumors of the stomach, liver	4	....	..	..	..	..	..	..	..	....	..	2	1	..	..	1	..	2	2	....	4	....	....	1	3	....	..	..	..	..	..	2	1	..	..	..	..	1
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	2	....	..	..	..	..	..	..	..	....	..	1	....	1	..	..	..	....	2	....	2	....	....	....	2	....	..	..	..	..	1	..	..	..	1	..	..	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
47. Acute articular rheumatism	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	....	....	1	....	....	1	..	..	..	..	..	1	..	..	..	..	..	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
50. Diabetes	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
54. Anæmia, chlorosis	2	....	..	..	..	..	..	..	..	....	..	1	1	..	..	..	..	2	....	....	2	....	....	2	....	....	..	..	..	..	..	..	..	1	1	..	..	..
56. Alcoholism (acute or chronic)	6	....	..	..	..	..	..	..	..	1	1	1	3	..	..	..	..	6	....	....	4	1	1	1	4	1	..	1	..	..	1	..	..	1	1	..	2	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	18	6	2	..	..	..	1	..	2	3	..	1	....	..	2	1	..	10	8	....	12	5	1	13	4	1	1	1	2	..	1	1	4	5	3	..	..	..
61. Simple meningitis	6	3	..	..	..	..	..	..	2	1	..	..	....	..	..	..	..	3	3	....	5	1	....	6	....	....	..	..	1	..	1	..	1	2	1	..	..	..
64. Cerebral hæmorrhage, apoplexy	4	....	..	..	..	..	..	..	..	....	..	1	....	..	2	1	..	2	2	....	1	3	....	....	4	....	..	1	..	1	..	..	1	1	1	..	..	..
69. Epilepsy	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	....	1	....	....	1	..	..	..	..	..	..	1	..	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	2	....	..	1	..	..	..	..	..	1	..	..	....	..	..	..	..	1	1	....	....	2	....	2	....	....	1	..	..	..	..	1	..	..	..	..	..	..
144. Acute abscess	2	....	..	1	..	..	..	..	..	1	..	..	....	..	..	..	..	1	1	....	....	2	....	2	....	....	1	..	..	..	..	1	..	..	..	..	..	..
IX.—Diseases of the Bones and of the Organs of Locomotion.																																						
Group Total	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
146. Diseases of the bones (tuberculosis excepted)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
X.—Malformations.																																						
Group Total	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..
150. Congenital malformations (still-births not included)	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..
XI.—Diseases of Early Infancy.																																						
Group Total	35	35	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	23	12	....	35	....	....	35	....	....	..	5	1	1	2	2	4	11	5	2	..	2
151. Congenital debility, icterus, and sclerema	35	35	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	23	12	....	35	....	....	35	....	....	..	5	1	1	2	2	4	11	5	2	..	2
154. XII.—Old Age.																																						
Group Total	6	....	..	..	..	..	..	..	..	....	..	..	....	..	4	2	..	4	2	....	2	3	1	....	5	1	..	..	1	..	2	1	..	1	..	1	..	..
XIII.—Affections Produced by External Causes.																																						
Group Total	31	....	..	1	..	..	1	1	3	9	6	4	1	1	..	..	4	27	4	....	8	10	13	12	10	9	1	..	2	1	3	2	10	3	7	..	2	..
155. Suicide by poison	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	....	1	....	....	1	..	..	..	..	..	..	1	..	..	..	..	..
160. Suicide by cutting or piercing instruments	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	....	....	1	....	....	1	..	..	1	..	..	..	..	..	..	..	..	..
165. Other acute poisonings	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..
169. Accidental drowning	6	....	..	..	..	..	..	..	2	2	1	1	....	..	..	..	..	5	1	....	2	3	1	4	1	1	..	..	..	1	1	..	2	..	2	..	..
170. Traumatism by firearms	2	....	..	..	..	..	..	1	..	1	..	..	....	..	..	..	..	2	....	....	....	2	....	1	1	....	..	..	..	..	..	..	..	1	1	..	..
172. Traumatism by fall	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	....	1	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	10	....	..	1	..	..	..	..	1	3	1	1	1	..	..	..	2	9	1	....	1	3	6	4	2	4	1	..	1	..	..	1	3	1	3	..	..	..
179. Effects of heat	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	....	1	....	....	1	..	..	..	..	..	..	1	..	..	..	..	..
181. Electricity (lightning excepted)	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..
185. Fractures (cause not specified)	5	....	..	..	..	..	1	..	..	1	1	..	....	1	..	..	1	5	....	....	3	....	2	2	2	1	..	..	..	..	2	1	..	1	..	1	..
186. Other external violence	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	1	1	....	1	1	....	1	1	....	..	..	..	..	..	..	1	..	1	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
189. Cause of death not specified or ill-defined	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
Still-Births.																																						
Not included in totals	33	33	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	17	16	....	33	....	....	33	....	....	1	2	3	3	3	3	4	6	3	1	1	3

CAUSES OF DEATH IN THE CITY OF ST. CATHARINES, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	216	38	1	3	.....	3	4	2	4	14	17	12	22	30	44	19	3	126	90	.....	137	78	1	91	124	1	21	17	20	17	12	15	18	19	23	20	16	18
I.—General Diseases.																																						
Group Total	50	1	..	..	..	2	..	1	1	5	6	7	8	8	9	2	..	28	22	....	31	18	1	13	37	....	7	3	6	5	4	1	4	4	6	4	2	4
1. Typhoid fever	3	....	..	..	..	..	..	..	..	2	..	..	1	..	..	..	..	2	1	....	....	3	....	1	2	....	1	..	..	..	..	..	..	..	..	1	1	..
7. Scarlet fever	2	....	..	..	..	2	..	..	..	..	..	..	..	..	..	..	..	2	..	....	2	....	....	2	....	....	..	1	..	..	..	..	..	1	..	..	..	..
10. Influenza	2	....	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	1	1	....	2	....	....	....	2	....	..	1	1	..	..	..	..	..	..	..	..	..
14. Dysentery	1	....	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
18. Erysipelas	1	....	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	....	1	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	16	1	..	..	..	..	..	1	1	2	4	5	....	2	..	..	..	12	4	....	12	4	....	7	9	....	2	1	1	1	2	..	1	1	2	2	1	2
34. Tuberculosis of other organs	2	....	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	1	1	....	2	....	....	....	2	....	..	..	..	..	..	..	..	1	..	..	..	1
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	6	....	..	..	..	..	..	..	..	....	1	1	..	3	1	..	..	4	2	....	1	4	1	....	6	....	1	..	2	1	..	..	1	..	1	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	3	....	..	..	..	..	..	..	..	....	..	..	1	2	..	..	..	1	2	....	2	1	....	....	3	....	..	..	1	..	..	..	..	..	1	..	..	1
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	4	....	..	..	..	..	..	..	..	....	..	..	1	..	2	1	..	1	3	....	3	1	....	1	3	....	1	..	..	..	..	..	2	1	..	..	..	..
50. Diabetes	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	1	1	....	1	1	....	....	2	....	..	..	..	1	..	..	..	..	..	1	..	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	....	1	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
52. Addison's disease	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
54. Anæmia, chlorosis	2	....	..	..	..	..	..	..	..	....	..	..	....	2	..	..	..	1	1	....	2	....	....	....	2	....	..	..	..	..	1	1	..	..	..	..	..	..
55. Other general diseases	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	26	6	..	..	..	1	3	..	..	....	1	1	2	6	4	2	..	14	12	....	16	10	....	14	12	....	2	1	..	2	2	1	2	3	4	..	7	2
61. Simple meningitis	3	1	..	..	..	..	1	..	..	....	1	..	....	..	..	..	..	2	1	....	1	2	....	3	....	....	..	..	..	..	..	..	1	1	..	..	1	..
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
63. Other diseases of the spinal cord	1	....	..	..	..	1	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
64. Cerebral hæmorrhage, apoplexy	5	....	..	..	..	..	..	..	..	....	..	1	....	2	2	..	..	2	3	....	2	3	....	2	3	....	1	..	..	2	..	..	..	..	..	..	2	..
66. Paralysis without specified cause	6	....	..	..	..	..	..	..	..	1	..	..	2	2	1	..	..	3	3	....	3	3	....	....	6	....	..	1	..	..	1	..	..	1	..	..	3	..
67. General paralysis of the insane	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..

ST. CATHARINES—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
70. Convulsions (non-puerperal)	2	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	..	2	..	..	2	..	..	2	..	..	..	..	..	..	..	..	1	1	..	..	..
71. Convulsions of infants	5	5	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	3	..	5	..	..	5	..	..	..	..	..	..	1	..	1	..	1	..	1	1
73. Neuralgia and neuritis	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
75. Diseases of the eyes and their adnexa	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																					
Group Total	24	..	..	..	..	..	..	1	..	1	..	2	5	3	9	1	2	13	11	..	16	8	..	8	16	..	2	1	3	3	1	1	4	1	..	5	2	1
78. Acute endocarditis	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
79. Organic diseases of the heart	18	..	..	..	..	..	..	..	..	..	1	4	3	7	1	2	8	10	..	11	7	..	5	13	..	1	..	3	3	1	..	3	1	..	3	2	1
81. Diseases of the arteries, atheroma, aneurysm, etc.	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	1	..	..
82. Embolism and thrombosis	3	..	..	..	..	..	..	..	..	..	1	1	..	1	..	..	..	3	..	..	2	1	..	..	3	..	1	..	..	..	..	..	1	..	..	1	..	..
85. Hæmorrhage; other diseases of the circulatory system	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..
IV.—Diseases of the Respiratory System.																																					
Group Total	33	4	..	2	..	..	..	..	..	1	5	1	..	7	8	4	1	18	15	..	25	8	..	10	23	..	5	4	4	2	2	4	3	1	1	3	..	4
90. Chronic bronchitis	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	1	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..
91. Broncho-pneumonia	2	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	1	..	..	1	..	..	..	2	..	..	1	1	..	..	..	..	..	..	..	..	..
92. Pneumonia	24	3	..	2	..	..	..	..	..	1	4	1	..	4	7	2	..	13	11	..	18	6	..	9	15	..	4	3	3	2	1	2	3	..	..	2	..	4
93. Pleurisy	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..
94. Pulmonary congestion, pulmonary apoplexy	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	1	..	1	..	1	..	..
96. Asthma	4	..	..	..	..	..	..	..	..	..	1	..	..	2	..	..	1	3	1	..	4	..	..	..	4	..	1	..	..	..	..	1	..	1	..	1	..	..
V.—Diseases of the Digestive System.																																					
Group Total	19	8	..	1	..	..	..	..	1	1	2	1	1	3	1	..	..	10	9	..	16	3	..	14	5	..	1	2	2	..	..	..	1	5	4	3	..	1
103. Other diseases of the stomach (cancer excepted)	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..
104. Diarrhœa and enteritis (under 2 years)	8	8	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	5	3	..	8	..	..	8	..	..	..	1	1	..	..	..	1	2	3	..	..	..
105. Diarrhœa and enteritis (2 years and over)	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..
108. Appendicitis and typhlitis	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..
109. Hernias, intestinal obstructions	5	..	..	..	..	..	..	..	..	..	1	1	1	2	..	..	..	2	3	..	2	3	..	2	3	..	1	..	1	..	..	..	..	1	..	2	..	..
113. Cirrhosis of the liver	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
117. Simple peritonitis (non-puerperal)	2	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	2	..	2	..	..	2	..	..	..	..	..	..	..	..	..	1	..	1	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																					
Group Total	4	..	..	..	..	..	..	..	..	..	..	..	1	..	2	1	..	2	2	..	2	2	..	1	3	..	..	..	1	1	..	1	..	..	..	..	1	..
120. Bright's disease	2	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	2	..	..	1	1	..	..	2	..	..	..	..	..	..	1	..	..	..	..	1	..
122. Other diseases of the kidneys and adnexa	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..
123. Calculi of the urinary passages	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..
VII.—The Puerperal State.																																					
Group Total	4	..	..	..	..	..	..	..	..	1	3	..	..	..	..	..	..	..	4	..	3	1	..	1	3	..	..	1	..	1	..	..	..	..	1	..	1
134. Accidents of pregnancy	2	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	2	..	1	1	..	..	2	..	..	..	..	..	..	..	..	..	..	1	..	1
137. Puerperal septicæmia	2	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	2	..	2	..	..	1	1	..	..	1	..	1	..	1	..	..	..	..	..	..

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CAUSES OF DEATH IN THE CITY OF ST. THOMAS, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	181	30	3	2	1	2	3	2	4	13	18	10	15	20	36	18	4	91	89	1	124	42	15	72	93	16	15	21	15	12	13	10	13	9	21	19	14	19
I.—General Diseases.																																						
Group Total	39	2	1	1	1	1	1	1	2	4	6	4	2	5	5	1	2	13	26	....	33	5	1	16	20	3	3	6	5	2	6	1	2	1	4	5	1	3
1. Typhoid fever	3	....	....	....	....	....	....	....	1	....	2	....	....	....	....	....	....	2	1	....	2	1	....	1	2	....	....	....	....	....	1	....	....	....	....	3	....	....	....
7. Scarlet fever	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
8. Whooping cough	2	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	2	....	2	....	....	2	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....
9. Diphtheria and croup	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
10. Influenza	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	1	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
14. Dysentery	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
28. Tuberculosis of the lungs	10	....	....	....	....	....	....	....	1	3	2	2	....	2	....	....	....	4	6	....	8	1	1	4	4	2	1	3	1	1	....	....	2	1	1	....	....	....
30. Tuberculous meningitis	2	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	2	....	2	....	....	2	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1
34. Tuberculosis of other organs	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
36. Rickets	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
39. Cancer and other malignant tumors of the buccal cavity	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1
40. Cancer and other malignant tumors of the stomach, liver	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	1	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....
42. Cancer and other malignant tumors of the female genital organs	2	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	2	....	1	1	....	....	2	....	....	....	....	....	2	....	....	....	....	....	....	....	....
43. Cancer and other malignant tumors of the breast	2	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	2	....	2	....	....	....	2	....	1	1	....	....	....	....	....	....	....	....	....	....	....
45. Cancer and other malignant tumors of other organs and of organs not specified	2	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	2	....	2	....	....	....	1	1	....	....	....	....	1	....	....	....	1	....	....	....	....
48. Chronic rheumatism and gout	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
50. Diabetes	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	1	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....
53. Leucæmia	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	1	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	1	....	1
54. Anæmia, chlorosis	5	....	....	1	....	....	....	....	....	....	....	1	1	1	1	....	....	2	3	....	4	1	....	1	4	....	....	....	....	1	....	....	....	....	....	....	....	....	....
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	19	2	1	....	....	....	....	....	....	....	2	....	2	4	6	1	1	10	9	....	12	7	....	6	10	3	1	2	1	2	2	1	....	1	1	4	2	2
61. Simple meningitis	2	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	2	....	....	2	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
64. Cerebral hæmorrhage, apoplexy	11	....	....	....	....	....	....	....	....	....	....	....	2	2	5	1	1	5	6	....	6	5	....	2	8	1	1	1	1	..	1	1	....	....	....	....	....	....	....
65. Softening of the brain	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
66. Paralysis without specified cause	2	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	1	1	....	1	....	....	....	2	....	....	....	....	....	....	....	....	....	1	....	....	....	....
70. Convulsions (non-puerperal)	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
71. Convulsions of infants	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	2	....	....	2	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....

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ST. THOMAS—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
154. XII.—Old Age.																																						
Group Total	21	....	..	..	..	..	..	..	..	....	..	..	.....	..	13	8	..	13	8	....	9	11	1	2	17	2	4	2	1	1	2	1	2	..	3	2	3	..
XIII.—Affections Produced by External Causes.																																						
Group Total	14	....	..	..	..	..	..	..	1	3	1	3	1	..	2	2	1	12	2	....	7	4	3	5	7	2	..	..	..	..	..	..	1	3	2	3	2	3
165. Other acute poisonings	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
167. Burns (conflagration excepted)	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	....	1	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
168. Absorption of deleterious gases (conflagration excepted)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
172. Traumatism by fall	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	4	....	..	..	..	..	..	..	..	3	....	..	1	..	..	..	..	4	....	....	3	1	....	1	2	1	..	..	..	..	..	..	..	..	1	1	2
178. Excessive cold	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	....	1	....	....	....	1	..	..	..	..	..	..	..	..	..	..	..	1
185. Fractures (cause not specified)	4	....	..	..	..	..	..	..	..	....	1	1	....	..	..	1	1	3	1	....	2	....	2	3	1	....	..	..	..	..	..	..	1	..	1	1	1	..
186. Other external violence	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	8	....	..	..	..	..	..	..	..	3	2	..	2	1	..	..	..	3	4	1	4	1	3	3	3	2	1	..	..	1	..	..	..	..	4	..	..	2
189. Cause of death not specified or ill-defined	8	....	..	..	..	..	..	..	..	3	2	..	2	1	..	..	..	3	1	1	4	1	3	3	3	2	1	..	..	1	..	..	..	..	4	..	..	2
Still-Births.																																						
Not included in totals	14	11	..	..	..	..	..	..	..	....	..	..	.....	..	..	..	..	9	5	....	14	....	....	14	....	....	2	2	3	2	..	1	..	1	..	..	1	2

CAUSES OF DEATH IN THE CITY OF STRATFORD, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	179	23	7	2	1	2	.....	2	3	14	15	9	15	31	30	21	4	103	76	.....	112	61	6	68	103	8	18	14	22	19	6	12	21	7	11	18	15	16
I.—General Diseases.																																						
Group Total	46	1	2	2	..	1	..	..	1	4	7	2	7	10	5	3	1	21	25	....	37	8	1	13	32	1	3	5	4	5	2	2	5	3	2	5	4	6
1. Typhoid fever	3	....	..	..	..	..	..	..	..	....	1	1	....	1	..	..	..	1	2	....	3	....	....	....	3	....	..	..	..	..	..	..	..	..	1	2	..
7. Scarlet fever	1	....	..	..	..	1	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
8. Whooping cough	3	....	1	2	..	..	..	..	..	....	..	..	....	..	..	..	..	2	1	....	3	....	....	3	....	....	..	..	..	..	1	1	..	..	..	1	..	..
10. Influenza	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
18. Erysipelas	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	....	1	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
28. Tuberculosis of the lungs	10	....	..	..	..	..	..	..	1	3	2	..	3	..	1	..	..	5	5	....	9	1	....	3	6	1	..	..	3	1	..	..	2	1	2	1	..	..
30. Tuberculosis meningitis	4	1	1	..	..	..	..	..	..	....	1	1	....	..	..	..	..	2	2	....	4	....	....	3	1	....	..	..	..	1	..	..	..	..	..	1	1	1
39. Cancer and other malignant tumors of the buccal cavity	4	....	..	..	..	..	..	..	..	....	..	..	....	1	1	2	..	3	1	....	2	2	....	....	4	....	..	1	..	..	..	..	..	1	..	1	..	1
40. Cancer and other malignant tumors of the stomach, liver	4	....	..	..	..	..	..	..	..	....	..	..	1	3	..	..	..	3	1	....	4	....	....	1	3	....	..	..	..	1	..	..	1	..	..	..	..	2
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	2	....	..	..	..	..	..	..	..	....	..	..	1	..	1	..	..	1	1	....	1	1	....	....	2	....	1	..	..	1	..	..	..	..	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	....	2	....	2	....	....	....	2	....	..	1	..	..	..	..	..	1	..	..	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
50. Diabetes	4	....	..	..	..	..	..	..	..	1	1	..	....	1	..	1	..	1	3	....	3	1	....	1	3	....	..	1	..	1	..	..	..	..	..	..	1	1
54. Anæmia, chlorosis	4	....	..	..	..	..	..	..	..	....	1	..	....	2	1	..	..	2	2	....	2	2	....	....	4	....	1	..	1	..	..	1	..	..	..	..	..	1
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	15	2	1	..	..	..	..	..	..	....	..	1	1	6	2	1	1	10	5	....	8	6	1	3	11	1	1	1	2	1	..	2	2	..	..	2	2	2
61. Simple meningitis	2	1	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	1	..	..	..	1	..	..	..	..	..	..
63. Other diseases of the spinal cord	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
64. Cerebral hæmorrhage, apoplexy	7	....	..	..	..	..	..	..	..	1	3	1	1	1	..	..	..	6	1	....	3	3	1	....	6	1	..	..	2	1	..	1	..	..	..	1	1	..
65. Softening of the brain	1	....	..	..	..	..	..	..	..	....	1	..	....	1	..	..	..	....	1	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
66. Paralysis without specified cause	3	....	..	..	..	..	..	..	..	....	1	1	....	1	1	..	..	3	....	....	1	2	....	....	3	....	..	..	..	..	..	..	1	..	..	1	..	1
71. Convulsions of infants	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
III.—Diseases of the Circulatory System.																																						
Group Total	17	..	..	..	..	..	..	1	..	2	3	1	2	3	3	2	..	8	9	..	8	9	..	7	8	2	2	1	..	4	..	..	3	..	..	2	4	1
78. Acute endocarditis	2	..	..	..	..	..	..	1	..	1	..	..	..	..	..	..	..	..	2	..	1	1	..	1	1	..	..	..	..	..	..	1	..	..	..	1	..
79. Organic diseases of the heart	8	..	..	..	..	..	..	..	..	1	1	1	1	2	2	..	..	3	5	..	5	3	..	4	3	1	1	..	..	3	..	..	1	..	..	2	1	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	4	..	..	..	..	..	..	..	..	..	..	..	..	1	1	2	..	3	1	..	1	3	..	1	2	1	..	1	..	1	..	..	1	..	..	..	1	..
82. Embolism and thrombosis	2	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	1	1	..	..	2	..	..	2	..	1	..	..	..	..	..	..	..	..	..	..	1
85. Hæmorrhage; other diseases of the circulatory system	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..
IV.—Diseases of the Respiratory System.																																						
Group Total	16	3	2	..	..	..	..	..	..	2	..	..	3	3	3	..	..	9	7	..	10	5	1	9	6	1	5	2	2	1	..	1	1	..	1	1	1	1
89. Acute bronchitis	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..
90. Chronic bronchitis	3	..	1	..	..	..	..	..	..	..	..	..	..	..	2	..	..	1	2	..	1	2	..	1	2	..	..	1	2	..	..	..	..	..	..	..	..	..
91. Broncho-pneumonia	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..
92. Pneumonia	7	2	..	..	..	..	..	..	..	1	..	..	2	1	1	..	..	5	2	..	5	1	1	5	1	1	5	..	..	..	..	1	..	..	..	..	1
93. Pleurisy	3	..	..	..	..	..	..	..	..	1	..	..	1	1	..	..	..	2	1	..	2	1	..	1	2	..	..	1	..	..	1	..	..	1	..	..	..
96. Asthma	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..
V.—Diseases of the Digestive System.																																						
Group Total	10	..	1	..	..	1	..	..	2	..	1	2	..	1	2	..	..	7	3	..	9	1	..	7	3	..	2	1	2	..	..	2	..	..	2	1	..	..
102. Ulcer of the stomach	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	1	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..
104. Diarrhœa and enteritis (under 2 years)	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..
105. Diarrhœa and enteritis (2 years and over)	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..
109. Hernias, intestinal obstructions	2	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	..	2	..	..	1	1	..	2	..	..	..	..	1	..	..	1	..	..	..	..	..	..
110. Diseases of the intestines	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..
115. Other diseases of the liver	2	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	1	1	..	2	..	..	1	1	..	2	..	..	..	..	..	..	..	..	..	..	..
118. Other diseases of the digestive system (cancer and tuberculosis excepted)	1	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	8	..	..	..	..	..	..	1	..	1	..	2	..	3	1	..	..	5	3	..	3	4	1	2	4	2	1	1	..	2	1	1	..	2	..	..	..	..
119. Acute nephritis	4	..	..	..	..	..	..	1	..	1	..	1	..	1	..	..	..	2	2	..	3	1	..	2	2	..	1	..	..	..	..	1	..	2	..	..	..	..
120. Bright's disease	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..
123. Calculi of the urinary passages	2	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	1	..	..	2	..	..	1	1	..	..	..	..	1	1	..	..	..	..	..	..
124. Diseases of the bladder	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..
VII.—The Puerperal State.																																						
Group Total	5	..	..	..	..	..	..	..	..	3	2	..	..	..	..	..	..	..	5	..	5	..	..	1	4	..	..	1	1	1	..	..	1	..	..	..	..	1
134. Accidents of pregnancy	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
136. Other accidents of labor	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..
137. Puerperal septicæmia	3	..	..	..	..	..	..	..	..	3	..	..	..	..	..	..	..	..	3	..	3	..	..	1	2	..	..	1	1	1	..	..	..	..	..	..	..	..

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Condition			Months.										
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	5675	1582	205	85	52	40	126	74	126	411	440	460	491	590	461	347	5	3017	2654	4	3522	1777	376	2862	2446	367	529	483	568	534	466	384	462	470	441	427	396	515
I.—General Diseases.																																						
Group Total	1329	121	60	28	25	21	74	40	53	157	157	161	165	146	101	20	..	659	670	..	810	436	83	632	609	88	154	104	129	122	130	114	83	102	93	97	96	105
1. Typhoid fever	54	...	..	..	..	..	..	1	6	17	15	10	3	...	2	..	..	45	9	..	18	33	3	26	25	3	4	6	4	2	2	4	1	6	8	6	7	4
6. Measles	22	7	5	2	3	1	2	..	1	...	...	1	...	...	...	...	..	11	11	..	20	2	...	22	...	...	2	2	5	1	5	...	2	...	...	1	1	3
7. Scarlet fever	49	3	6	8	6	4	11	6	1	1	4	...	...	...	...	...	..	22	27	..	40	9	...	46	2	1	9	6	6	16	5	1	3	1	1	...	...	1
8. Whooping cough	74	47	22	1	2	1	1	..	...	...	...	...	...	...	...	...	..	34	40	..	74	...	...	74	...	...	2	2	2	9	13	10	7	11	11	1	2	4
9. Diphtheria and croup	140	25	12	14	12	12	41	12	8	3	...	1	...	...	...	...	..	68	72	..	119	21	...	136	2	2	27	12	11	15	18	10	4	8	3	9	10	13
10. Influenza	39	1	2	..	..	..	..	..	1	3	2	2	5	6	14	3	..	16	23	..	18	21	...	7	28	4	6	8	12	4	3	...	1	...	...	1	1	3
14. Dysentery	19	6	1	1	...	3	1	..	2	1	1	...	1	1	1	..	..	10	9	..	13	6	...	13	6	...	...	...	...	...	1	6	5	5	2	...	...	...
18. Erysipelas	13	3	..	..	..	..	..	..	1	2	2	3	1	...	1	..	..	5	8	..	9	4	...	4	9	...	3	...	2	2	1	2	1	2	...	...	...	...
19. Other epidemic diseases	1	1	..	..	..	..	..	..	..	...	...	...	...	...	...	...	..	1	...	..	1	...	...	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...
20. Purulent infection and septicæmia	36	9	..	1	...	..	1	1	2	7	4	3	4	1	3	...	..	22	14	..	22	9	5	24	7	5	2	2	4	4	3	7	1	4	2	4	2	1
24. Tetanus	3	...	...	...	...	1	...	1	..	1	...	...	...	...	...	...	..	2	1	..	2	1	...	3	...	...	...	...	1	...	...	...	...	1	...	...	1	...
25. Mycoses	1	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	..	...	1	..	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...
28. Tuberculosis of the lungs	253	1	2	...	...	1	1	3	17	82	60	40	24	15	7	...	..	132	121	..	157	77	19	97	134	22	40	16	25	30	25	20	12	19	15	17	19	15
29. Acute miliary tuberculosis	9	...	...	...	...	...	...	1	...	2	4	...	1	...	1	...	..	6	3	...	5	2	2	3	5	1	3	...	1	1	...	1	2	...	...	...	1	...
30. Tuberculous meningitis	33	6	3	1	2	1	4	7	4	3	1	...	1	...	...	...	..	22	11	..	23	10	...	29	3	1	4	2	4	3	4	1	4	4	2	2	3	...
31. Abdominal tuberculosis	15	1	..	..	..	..	..	..	1	5	3	4	...	1	...	...	..	7	8	..	10	4	1	8	7	...	3	...	1	1	2	2	1	1	...	...	3	1
34. Tuberculosis of other organs	6	...	...	...	...	...	...	1	...	1	...	2	...	1	1	...	..	3	3	...	6	...	...	4	2	...	...	1	...	...	...	1	1	...	...	1	1	1
36. Rickets	6	3	3	...	...	...	...	...	...	...	...	...	...	...	...	...	..	4	2	...	6	...	...	6	...	...	...	...	...	...	1	1	...	...	1	...	...	...
37. Syphilis	8	4	2	...	...	...	...	...	...	1	...	1	...	...	...	...	..	4	4	...	7	1	...	7	1	...	2	...	...	1	1	...	...	...	1	1	...	1
39. Cancer and other malignant tumors of the buccal cavity	39	...	...	...	...	...	1	..	2	2	1	4	10	12	6	1	..	30	9	..	18	17	4	11	22	6	1	6	4	5	1	1	6	4	2	2	4	3
40. Cancer and other malignant tumors of the stomach, liver	77	...	...	...	...	...	...	...	..	1	3	16	16	28	12	1	..	40	37	..	33	42	2	9	59	9	8	7	3	5	7	8	2	7	11	6	3	10
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	45	...	...	...	...	...	...	...	..	1	4	6	14	12	6	2	..	19	26	..	19	24	2	6	37	2	3	2	4	2	2	6	3	4	4	3	6	6
42. Cancer and other malignant tumors of the female genital organs	52	...	...	...	...	...	...	...	..	2	7	7	23	7	6	...	..	...	52	..	27	18	7	1	50	1	3	3	6	2	5	6	4	6	1	6	4	6
43. Cancer and other malignant tumors of the breast	21	...	...	...	...	...	...	...	...	...	2	2	6	8	3	...	..	...	21	..	10	9	2	3	16	2	...	1	3	1	4	...	3	...	2	3	2	2
44. Cancer and other malignant tumors of the skin	2	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	..	2	...	...	...	2	...	...	1	1	...	...	1	...	...	...	...	...	...	1	...	...
45. Cancer and other malignant tumors of other organs and of organs not specified	90	...	2	...	...	...	...	...	...	7	5	15	16	21	15	9	..	39	51	..	41	39	10	18	65	7	6	5	7	4	8	12	7	3	9	6	11	12
46. Other tumors (tumors of the female genital organs excepted)	1	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	..	1	...	...	...	...	1	...	1	...	...	...	...	...	...	...	...	...	1	...	...

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TORONTO—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
V.—Diseases of the Digestive System.																																						
Group Total	714	425	44	7	6	3	8	4	9	26	38	36	34	36	30	8	..	403	311	..	586	103	25	544	147	23	34	44	39	47	39	30	102	128	106	68	46	31
99. Diseases of the mouth and adnexa	3	2	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	2	1	..	3	..	..	3	..	..	..	..	..	1	..	..	..	2	..	..	..	..
100. Diseases of the pharynx	7	2	1	..	..	..	..	..	..	1	1	..	1	..	1	..	..	5	2	..	3	3	1	5	2	..	..	1	2	1	1	1	..	..	..	..	1	..
102. Ulcer of the stomach	23	3	..	..	..	..	..	..	..	1	4	6	3	5	1	..	..	14	9	..	13	6	4	10	11	2	1	2	1	3	1	3	1	3	4	1	..	3
103. Other diseases of the stomach (cancer excepted)	92	61	2	1	..	1	2	..	1	..	1	3	6	9	5	..	..	53	39	..	69	14	9	62	20	10	4	7	2	8	8	4	13	6	14	14	8	4
104. Diarrhœa and enteritis (under 2 years)	366	330	36	..	..	..	..	..	..	..	..	..	..	..	..	..	..	209	157	..	366	..	..	366	..	..	10	16	19	19	14	7	60	90	67	32	25	7
105. Diarrhœa and enteritis (2 years and over)	32	..	..	3	3	2	3	..	..	1	5	3	2	4	3	3	..	15	17	..	22	9	1	17	14	1	..	1	2	1	..	1	8	7	6	4	2	..
108. Appendicitis and typhlitis	46	..	1	..	..	..	1	2	6	15	6	6	3	1	4	1	..	26	20	..	27	17	2	26	16	4	4	5	4	6	5	4	4	1	1	2	3	1
109. Hernias, intestinal obstructions	45	6	..	..	..	..	1	..	2	5	8	3	5	6	7	2	..	24	21	..	22	22	1	13	30	2	7	5	2	2	2	1	5	5	5	6	2	3
110. Diseases of the intestines	40	20	4	2	1	..	1	..	..	..	4	2	2	..	3	1	..	23	17	..	35	4	1	28	11	1	4	2	3	2	1	1	4	8	5	5	2	3
113. Cirrhosis of the liver	20	..	..	..	1	..	..	..	..	..	1	4	6	4	4	..	..	14	6	..	5	12	3	6	12	2	2	3	..	3	3	3	..	1	2	1	..	2
115. Other diseases of the liver	17	..	..	..	..	..	..	..	..	..	2	5	4	4	1	1	..	7	10	..	9	7	1	2	15	..	..	2	2	..	1	2	4	3	1	1	1	..
117. Simple peritonitis (non-puerperal)	22	1	..	1	..	..	..	2	..	3	6	3	2	3	1	..	..	10	12	..	11	9	2	5	16	1	2	..	2	..	3	3	3	2	1	2	2	2
118. Other diseases of the digestive system (cancer and tuberculosis excepted)	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	219	5	1	2	1	..	2	3	3	15	20	33	48	43	32	10	1	116	103	..	101	103	15	44	156	19	25	20	17	31	17	18	14	12	8	20	15	22
119. Acute nephritis	32	5	1	1	..	..	1	3	2	5	5	6	1	2	..	..	..	15	17	..	20	7	5	15	13	4	3	2	4	8	1	5	1	1	1	2	1	3
120. Bright's disease	132	..	..	..	..	..	1	..	..	7	8	20	36	28	24	7	1	66	66	..	62	64	6	22	100	10	15	10	10	14	10	6	10	8	6	15	10	18
122. Other diseases of the kidneys and adnexa	13	..	..	..	..	..	..	..	..	1	3	2	4	3	..	..	..	9	4	..	3	9	1	2	11	..	2	2	..	..	1	3	1	2	..	..	2	..
123. Calculi of the urinary passages	5	..	..	..	1	..	..	..	..	..	..	1	1	2	..	..	..	4	1	..	2	3	..	..	5	..	..	..	..	..	3	1	..	1	..	..	..	..
124. Diseases of the bladder	12	..	..	..	..	..	..	..	..	..	1	..	6	2	2	1	..	9	3	..	3	9	..	1	11	..	3	3	..	1	..	1	1	..	..	1	1	1
125. Diseases of the urethra, urinary abscess, etc.	2	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	1	1	..	1	1	..	..	2	..	..	..	..	1	..	..	..	1	..	..	..	..
126. Diseases of the prostate	12	..	..	..	..	..	..	..	..	..	..	1	..	5	4	2	..	12	..	..	4	7	1	..	8	4	2	1	1	4	..	1	..	1	..	1	2	..
129. Uterine tumor (non-cancerous)	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	1	..	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..
130. Other diseases of the uterus	2	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	2	..	..	1	1	1	1	..	..	..	..	..	..	..	..	..	1	..	..	..
131. Cysts and other tumors of the ovary	5	..	..	..	..	..	..	..	..	1	1	1	..	1	1	..	..	..	5	..	2	2	1	2	2	1	..	1	1	..	3	..	..	..	..	..	..	..
132. Salpingitis and other diseases of the female genital organs	3	..	..	..	..	..	..	..	1	..	1	1	..	..	..	..	..	..	3	..	3	..	..	1	2	..	..	..	..	1	..	..	1	..	..	..	..	1	..
VII.—The Puerperal State.																																						
Group Total	90	..	..	..	..	..	..	..	9	33	43	5	..	..	..	..	..	..	90	..	44	38	8	6	79	5	6	10	6	8	8	6	11	4	6	3	11	11
134. Accidents of pregnancy	21	..	..	..	..	..	..	..	3	6	10	2	..	..	..	..	..	..	21	..	7	13	1	1	20	..	..	3	1	1	1	..	3	1	3	2	4	2
135. Puerperal hæmorrhage	4	..	..	..	..	..	..	..	..	1	1	2	..	..	..	..	..	..	4	..	2	2	..	..	4	..	..	..	..	..	1	..	..	1	..	..	2	..
136. Other accidents of labor	19	..	..	..	..	..	..	..	..	8	10	1	..	..	..	..	..	..	19	..	11	7	1	1	18	..	..	2	..	1	2	3	4	3	..	..	1	1	2
137. Puerperal septicæmia	34	..	..	..	..	..	..	..	6	12	16	..	..	..	..	..	..	..	34	..	18	13	3	4	27	3	3	4	4	5	3	2	2	1	1	..	3	6
138. Puerperal albuminuria and convulsions	10	..	..	..	..	..	..	..	..	4	6	..	..	..	..	..	..	..	10	..	5	3	2	..	9	1	1	3	..	..	..	..	2	1	1	..	1	1
139. Puerperal phlegmasia alba dolens, embolus, sudden death	2	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	..	2	..	1	..	1	..	1	1	..	..	..	..	..	..	1	..	1	..	..	..

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TORONTO—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	44	...	1	..	2	2	3	1	1	9	12	2	3	4	1	3	..	37	7	..	20	18	6	20	18	6	2	5	...	5	7	6	2	6	...	3	5	3
178. Excessive cold	1	1	..	..	..	..	..	..	..	1	...	..	..	..	..	..	..	2	...	..	1	...	..	2	...	1	1	...	..	..	..	..	..	..	..	1	...	..	...
179. Effects of heat	2	...	1	..	..	..	..	1	..	6	...	1	1	...	..	..	..	1	...	..	2	...	..	1	...	1	...	...	..	1	1	3	...	..	1	...	..	...
181. Electricity (lightning excepted)	9	...	..	..	..	..	..	..	..	1	...	..	..	..	..	..	..	9	...	..	7	2	...	5	4	...	1	...	1	...	1	...	..	..	..	..	..	..
183. Homicide by cutting or piercing instruments.	1	...	..	..	..	..	..	..	..	...	..	..	..	..	..	..	..	1	...	..	1	...	..	1	...	..	...	...	..	..	..	..	..	..	1	1	1	...	...
184. Homicide by other means	1	1	..	..	..	..	..	..	1	5	10	8	5	6	5	3	..	32	14	..	16	25	5	12	28	6	2	3	4	5	7	3	7	5	3	1	2	4
185. Fractures (cause not specified)	46	...	1	1	1	..	..	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..
186. Other external violence	54	1	1	..	..	..	3	2	2	8	9	10	5	11	1	1	..	45	9	..	21	20	13	19	26	9	5	5	3	7	2	3	8	4	6	5	3	3
XIV.—Ill-Defined Diseases.																																						
Group Total	**58**	5	7	1	...	...	4	1	..	5	9	10	8	6	...	..	2	29	28	1	37	14	7	26	24	8	5	7	5	7	2	2	5	2	5	7	3	8
188. Sudden death	3	1	..	..	..	..	..	..	..	..	..	..	..	1	...	..	..	2	1	..	3	...	...	3	...	...	...	...	...	...	...	...	...	...	...	...	...	...
189. Cause of death not specified or ill-defined	55	4	7	1	..	..	4	1	..	5	8	10	8	5	...	..	2	27	27	1	34	14	7	23	24	8	5	7	5	7	2	2	5	2	5	4	3	8
Still-Births.																																						
Not included in totals	**587**	587	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	369	211	7	587	...	...	587	...	...	56	38	48	57	30	64	44	53	47	56	52	42

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	277	52	6	4	.....	1	4	6	4	25	19	16	36	41	37	26	.....	157	120	.....	170	87	20	113	154	10	34	16	21	20	26	15	27	22	17	24	22	33
I.—General Diseases.																																						
Group Total	68	22	1	..	..	1	3	1	2	11	8	7	15	10	4	3	..	31	37	....	41	24	3	24	40	4	8	3	8	4	4	4	5	4	5	10	6	7
1. Typhoid fever	7	....	..	..	..	..	..	1	1	2	2	..	....	1	..	..	..	3	4	....	5	2	....	6	1	....	1	1	..	2	..	1	..	..	..	..	..	2	..
8. Whooping cough	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	..	..
10. Influenza	2	....	..	..	..	..	1	..	..	....	..	1	....	..	..	..	..	1	1	....	....	2	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
14. Dysentery	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	1	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....
18. Erysipelas	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....
24. Tetanus	2	....	..	..	..	..	1	..	..	1	..	..	....	..	..	..	..	1	1	....	1	1	....	1	1	....	1	..	..	..	..	..	..	1	..	..	..	..	..
25. Mycoses	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
28. Tuberculosis of the lungs	14	....	..	..	..	..	..	..	1	5	2	2	2	2	..	..	..	6	8	....	9	5	....	5	8	1	1	2	2	2	..	1	..	1	..	3	1	1
29. Acute miliary tuberculosis	2	....	..	..	..	1	..	..	..	....	1	..	....	..	..	..	..	2	....	....	1	1	....	2	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....
31. Abdominal tuberculosis	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....
34. Tuberculosis of other organs	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
37. Syphilis	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
39. Cancer and other malignant tumors of the buccal cavity	4	....	..	..	..	..	..	..	..	....	..	..	....	2	1	1	..	1	3	....	1	2	1	....	3	1	....	..	1	..	..	..	..	2	..	..	..	..	1
40. Cancer and other malignant tumors of the stomach, liver	3	....	..	..	..	..	..	..	..	....	..	..	2	..	..	1	..	2	1	....	1	2	....	....	3	....	....	..	..	..	..	..	..	1	..	..	1	1	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	3	....	..	..	..	..	..	..	..	....	..	1	2	..	..	..	..	1	2	....	2	1	....	....	3	....	....	..	..	..	..	..	1	..	..	1	1	..	..
42. Cancer and other malignant tumors of the female genital organs	5	....	..	..	..	..	..	..	..	....	1	1	1	1	1	..	..	....	5	....	3	1	1	1	4	....	1	..	2	..	1	..	..	..	..	1	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	1	....	..	..	..	..	..	..	..	....	..	1	1	1	..	1	..	2	2	....	3	1	....	....	4	....	....	....	....	....	1	1	..	1	..	1	..	..	..
47. Acute articular rheumatism	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	1	....	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	..	..	2	..	..	....	..	..	..	..	1	1	....	1	1	....	1	1	....	1	....	....	....	....	....	1	....	....	....	....	....	....
50. Diabetes	3	....	..	..	..	..	1	..	..	....	..	..	....	1	1	..	..	....	3	....	2	....	1	1	1	1	....	....	....	....	....	1	....	....	1	....	1	....	1
54. Anæmia, chlorosis	7	....	..	..	..	..	..	..	..	....	..	..	5	1	1	..	..	3	4	....	6	1	....	6	1	....	1	..	1	..	..	..	1	..	1	2	1	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	25	4	2	2	..	..	..	1	..	....	1	1	3	3	5	3	..	14	11	....	17	7	1	11	12	2	7	1	..	1	3	2	3	1	2	..	3	2
61. Simple meningitis	8	3	2	2	..	..	..	1	..	....	..	..	....	..	..	..	..	4	4	....	8	....	....	8	....	....	2	1	..	..	..	1	1	..	1	..	1	1
64. Cerebral hæmorrhage, apoplexy	12	....	..	..	..	..	..	..	..	....	..	1	1	3	5	2	..	6	6	....	6	5	1	2	8	2	4	..	..	1	2	1	1	1	..	..	1	1

WINDSOR—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
66. Paralysis without specified cause	3	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	2	1	..	1	2	..	..	3	..	1	..	..	..	1	..	..	1	..	..	..	..
69. Epilepsy	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..
71. Convulsions of infants	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	57	..	..	..	..	1	..	..	4	1	2	8	17	18	6	..	33	24	..	28	24	5	7	49	1	4	2	6	8	3	5	4	4	2	4	2	13
79. Organic diseases of the heart	25	..	..	..	..	1	..	..	3	1	1	5	7	5	2	..	15	10	..	14	11	..	4	21	..	1	1	5	3	1	1	2	2	1	2	1	5
80. Angina pectoris	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..
81. Diseases of the Arteries, atheroma, aneurysm, etc.	30	..	..	..	..	..	..	..	..	..	..	1	3	10	13	3	..	17	13	..	12	13	5	2	27	1	3	1	1	5	2	3	2	2	1	2	1	7
82. Embolism and thrombosis	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1
IV.—Diseases of the Respiratory System.																																						
Group Total	30	6	2	2	..	..	..	..	..	3	1	4	2	5	4	1	..	23	7	..	23	5	2	15	15	..	9	4	2	2	4	..	1	..	2	2	2	2
89. Acute bronchitis	3	1	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	..	3	..	..	3	..	..	..	..	1	1	1	..	..	..	..	..	..	..
90. Chronic bronchitis	2	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	2	..	2	..	..	..	2	..	1	..	..	..	..	1	..	..	..	..	..	..
91. Broncho-pneumonia	9	5	..	1	..	..	..	..	..	1	..	..	1	1	..	..	..	7	2	..	9	..	..	8	1	..	1	2	1	..	..	..	..	2	1	..	2
92. Pneumonia	16	..	..	1	..	..	..	..	..	2	1	4	1	3	3	1	..	13	3	..	9	5	2	4	12	..	7	2	..	1	3	..	..	..	1	2	..
V.—Diseases of the Digestive System.																																						
Group Total	23	14	..	..	..	..	1	2	2	3	..	1	..	..	..	..	..	10	13	..	17	4	2	18	5	..	1	2	2	1	1	..	8	3	3	1	1	..
103. Other diseases of the stomach (cancer excepted)	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..
104. Diarrhœa and enteritis (under 2 years)	13	13	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	7	6	..	13	..	..	13	..	..	..	..	1	1	..	..	6	2	3	..	..	..
108. Appendicitis and typhlitis	4	..	..	..	..	..	..	2	1	1	..	..	..	..	..	..	..	1	3	..	2	2	..	3	1	..	..	1	1	..	..	..	1	..	..	1	..	..
109. Hernias, intestinal obstructions	4	..	..	..	..	..	..	1	..	..	2	..	1	..	..	..	..	1	3	..	1	2	1	1	3	..	1	1	..	..	1	..	..	..	..	..	1	..
117. Simple peritonitis (non-puerperal)	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	1	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	5	1	..	..	..	..	..	..	..	..	..	..	1	1	2	..	..	3	2	..	4	1	..	2	2	1	1	..	..	..	..	..	..	3	..	1	..	..
119. Acute nephritis	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..
120. Bright's disease	2	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	1	1	..	1	1	..	1	..	1	..	..	..	..	..	..	..	2	..	..	..	..
124. Diseases of the bladder	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..
126. Diseases of the prostate	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..
VII.—The Puerperal State.																																						
Group Total	6	..	..	..	..	..	..	..	..	2	3	1	..	..	..	..	..	..	6	..	3	3	..	2	4	..	..	..	..	..	1	1	..	1	..	..	3	..
134. Accidents of pregnancy	3	..	..	..	..	..	..	..	..	1	1	1	..	..	..	..	..	..	3	..	..	3	..	1	2	..	..	..	..	..	1	1	..	..	..	..	1	..
136. Other accidents of labor	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..
137. Puerperal septicæmia	2	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	..	2	..	2	..	..	1	1	..	..	..	..	..	..	..	..	1	..	..	1	..

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CAUSES OF DEATH IN THE CITY OF WOODSTOCK, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	130	17	4	1	2	.....	1	3	2	7	7	9	13	19	32	13	.....	74	56	.....	87	35	7	47	80	3	9	13	18	8	7	12	10	9	5	19	9	11
I.—General Diseases.																																						
Group Total	38	....	1	..	..	..	..	1	..	3	5	5	6	6	10	1	..	23	15	....	26	10	2	9	28	1	1	5	6	4	1	4	2	3	3	3	3	3
1. Typhoid fever	3	....	..	..	..	..	..	..	..	1	..	..	1	..	1	..	..	2	1	....	3	....	....	1	2	....	..	..	..	1	..	..	..	..	1	1	..
8. Whooping cough	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	....	1	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
10. Influenza	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	9	....	..	..	..	..	..	..	..	1	5	2	....	1	..	..	..	5	4	....	7	2	....	2	7	....	..	1	2	1	..	1	1	1	1	..	..	..
30. Tuberculous meningitis	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	4	....	..	..	..	..	..	..	..	....	..	..	....	1	3	..	..	3	1	....	2	1	1	1	2	1	..	..	1	..	..	..	1	..	2	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
42. Cancer and other malignant tumors of the female genital organs	3	....	..	..	..	..	..	..	..	....	..	1	1	1	..	..	..	....	3	....	3	....	....	....	3	....	..	..	..	..	..	1	..	1	..	1	..
45. Cancer and other malignant tumors of other organs and of organs not specified	3	....	..	..	..	..	..	..	..	....	..	1	1	1	..	..	..	1	2	....	2	....	1	....	3	....	..	1	..	1	..	..	..	..	..	..	..	1
48. Chronic rheumatism and gout	4	....	..	..	..	..	..	..	..	....	..	..	1	..	3	..	..	3	1	....	1	3	....	1	3	....	..	..	1	..	1	2	..	..	..	..	..	..
50. Diabetes	3	....	..	..	..	..	..	..	..	1	..	..	2	..	..	..	..	2	1	....	3	....	....	1	2	....	1	..	1	..	..	..	..	..	..	..	..	1
54. Anæmia, chlorosis	4	....	..	..	..	..	..	..	..	....	..	..	....	1	2	1	..	3	1	....	2	2	....	....	4	....	..	2	1	..	..	..	..	..	..	..	..	1
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	15	1	1	..	2	..	..	..	1	....	..	..	1	4	2	3	..	10	5	....	8	6	1	6	8	1	3	..	1	..	1	1	2	1	..	1	3	2
61. Simple meningitis	2	....	..	..	2	..	..	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	1	1	..	..	..	..	..	..
63. Other diseases of the spinal cord	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	3	....	..	..	..	..	..	..	..	2	..	1	..	..	..	..	..	2	1	....	1	1	1	....	3	....	..	..	1	..	..	..	1	..	..	..	1	..
66. Paralysis without specified cause	6	....	..	..	..	..	..	..	..	1	1	2	..	..	..	..	..	5	1	....	4	2	....	....	5	1	1	..	..	..	..	..	1	..	..	1	1	2
68. Other forms of mental alienation	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	....	1	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
69. Epilepsy	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
71. Convulsions of infants	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..

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WOODSTOCK—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
XI.—Diseases of Early Infancy.																																						
Group Total	12	12	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	6	6	....	12	....	....	12	....	....	..	2	1	1	..	..	2	1	..	4	..	1
151. Congenital debility, icterus, and sclerema	12	12	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	6	6	....	12	....	....	12	....	....	..	2	1	1	....	..	2	1	..	4	..	1
154. XII.—Old Age.																																						
Group Total	13	....	..	..	..	..	..	..	..	....	..	..	....	..	6	7	..	7	6	....	4	7	2	2	10	1	1	4	3	..	..	1	1	2	1	..	..	..
XIII.—Affections Produced by External Causes.																																						
Group Total	4	....	..	1	..	..	..	..	..	....	..	..	2	..	1	..	..	3	1	....	3	1	....	2	2	....	..	1	..	..	1	..	..	..	..	2	..	..
166. Conflagration	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..
167. Burns (conflagration excepted)	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
185. Fractures (cause not specified)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
186. Other external violence	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
189. Cause of death not specified or ill-defined	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
Still-Births.																																						
Not included in totals	14	14	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	9	5	....	14	....	....	14	....	....	1	2	..	1	1	1	1	..	1	2	3	1

CAUSES OF DEATH IN THE TOWN OF BARRIE, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	114	21	12	...	...	1	...	4	1	5	6	12	11	5	8	25	13	...	58	56	...	88	23	3	47	65	2	11	13	7	9	11	8	12	10	6	14	7	6
I.—General Diseases.																																						
Group Total	26	3	..	..	..	..	..	..	..	2	2	6	3	....	4	5	..	..	10	16	....	22	3	1	13	13	....	4	3	3	1	5	..	3	3	..	2	1	1
1. Typhoid fever	3	....	..	..	..	..	..	..	..	1	1	1	..	....	..	..	..	..	2	1	....	2	....	1	3	....	....	..	..	..	..	..	1	..	..	1	1	..
8. Whooping cough	3	3	..	..	..	..	..	..	..	....	..	..	..	....	..	..	..	..	2	1	....	3	....	....	3	....	....	2	..	..	1	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	3	....	..	..	..	..	..	..	..	1	..	2	....	..	..	..	..	..	....	3	....	2	1	....	1	2	....	1	..	1	..	..	..	1	..	..	..	..	..
29. Acute miliary tuberculosis	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	2	....	..	..	..	..	..	..	..	....	1	..	....	..	1	..	..	....	2	....	....	2	....	....	1	1	....	..	1	..	..	1	..	..	..	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	2	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	....	2	....	....	1	1	....	....	2	....	1	..	1	..	..	..	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	2	....	..	..	..	..	..	..	..	....	1	..	..	1	..	..	..	1	1	....	....	2	....	....	....	2	....	..	1	..	..	..	..	..	..	..	..	..	1
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	....	..	..	..	..	1	..	..	....	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
50. Diabetes	3	....	..	..	1	..	..	..	..	....	..	2	....	..	..	..	..	....	1	2	....	2	1	....	2	1	....	..	1	1	..	..	..	1	..	..	..	..	..
54. Anæmia, chlorosis	4	....	..	..	..	..	..	..	..	....	1	..	....	2	1	..	..	....	2	2	....	4	....	....	....	4	....	..	..	..	..	1	..	1	2	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	12	3	..	..	..	..	3	1	..	....	2	..	1	1	1	..	..	6	6	....	12	....	....	7	5	....	5	1	....	..	1	1	....	1	2	1	..
61. Simple meningitis	3	....	..	..	..	..	3	..	..	....	..	..	....	..	..	..	..	1	2	....	3	....	....	3	....	....	3	..	..	..	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	2	....	..	..	..	..	..	..	..	....	1	..	....	..	1	..	..	....	2	....	2	....	....	....	2	....	....	1	..	..	..	..	..	..	1	..	..	..	..
66. Paralysis without specified cause	2	....	..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	....	2	....	2	....	....	....	2	....	....	..	..	..	..	1	..	..	..	1	..	..	..
69. Epilepsy	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	..	....	1	....	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
71. Convulsions of infants	3	3	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	1	....	3	....	....	3	....	....	1	..	..	..	..	1	..	..	..	..	..	1	..
72. Chorea	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	10	....	..	..	..	..	..	..	..	....	..	5	....	1	3	1	..	5	5	....	7	3	....	2	8	....	..	3	..	1	1	1	2	1	..	..	..	1
79. Organic diseases of the heart	7	....	..	..	..	..	..	..	..	....	..	3	....	1	2	1	..	2	4	....	4	3	....	2	5	....	..	3	..	1	..	1	2	..	..	..	..	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	3	....	..	..	..	..	..	..	..	....	..	2	....	..	1	..	..	..	1	....	3	....	....	....	3	....	....	..	..	..	..	1	..	..	1	..	..	..	1

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
IV.—Diseases of the Respiratory System.																																						
Group Total	6	....	1	..	..	..	..	..	..	1	1	..	....	1	1	1	..	4	2	....	6	....	....	2	4	....	..	..	1	..	1	1	..	..	..	1	2	..
90. Chronic bronchitis	2	....	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	2	....	....	2	....	....	....	2	....	..	..	1	..	..	..	..	..	..	..	1	..
92. Pneumonia	3	....	1	..	..	..	..	..	..	....	1	..	....	1	..	..	..	2	1	....	3	....	....	1	2	....	..	..	..	..	1	..	..	..	..	1	1	..
93. Pleurisy	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	9	2	1	..	..	..	1	..	1	....	..	1	2	..	..	1	..	5	4	....	9	....	....	6	3	....	..	..	..	1	..	1	1	2	1	3	..	..
102. Ulcer of the stomach	2	....	..	..	..	..	..	..	1	....	..	1	....	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	1	..	..	1	..	..	..	..	..
104. Diarrhœa and enteritis (under 2 years)	3	2	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	....	....	3	....	....	3	....	....	..	..	..	1	..	2	..	..	..	..	..	..
105. Diarrhœa and enteritis (2 years and over)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
108. Appendicitis and typhlitis	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
109. Hernias, intestinal obstructions	2	....	..	..	..	..	..	..	..	....	..	..	2	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	..	..	..	1	..	..	..	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	3	....	..	..	..	..	..	..	2	....	..	..	1	..	..	..	..	1	2	....	2	1	....	2	1	....	1	..	..	1	..	..	..	..	..	1	..	..
119. Acute nephritis	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
120. Bright's disease	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	....	1	..	..	..	..	..	..	..	..	..	..	..	..
122. Other diseases of the kidneys and adnexa	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	....	1	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
VII.—The Puerperal State.																																						
Group Total	3	....	..	..	..	..	..	..	..	2	..	1	....	..	..	..	..	....	3	....	2	....	1	....	3	....	..	1	1	..	..	..	1	..	..	..	..	..
134. Accidents of pregnancy	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
137. Puerperal septicæmia	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	....	2	....	1	....	1	....	2	....	..	1	1	..	..	..	..	..	..	..	..	..
XI.—Diseases of Early Infancy.																																						
Group Total	13	13	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	7	6	....	13	....	....	13	....	....	1	..	1	2	2	..	1	..	..	2	2	2
151. Congenital debility, icterus, and sclerema	13	13	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	7	6	....	13	....	....	13	....	....	1	..	1	2	2	..	1	..	..	2	2	2
154. XII.—Old Age.																																						
Group Total	25	....	..	..	..	..	..	..	..	....	..	..	....	..	15	10	..	13	12	....	12	12	1	....	24	1	..	4	1	2	1	4	4	2	2	3	..	2
XIII.—Affections Produced by External Causes.																																						
Group Total	7	....	..	..	..	..	..	..	..	1	3	1	1	1	..	..	..	7	....	....	3	4	....	2	4	1	..	1	..	1	..	..	..	2	2	..	1	..
169. Accidental drowning	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	....	1	..	..	..	..	..	..	1	..	..	..	..	..
170. Traumatism by firearms	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	4	....	..	..	..	..	..	..	..	1	1	1	1	..	..	..	..	4	....	....	1	3	....	1	3	....	..	..	..	1	..	..	..	1	2	..	..	..
185. Fractures (cause not specified)	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
Still-Births.																																						
Not included in totals	5	5	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	2	....	5	....	....	5	....	....	1	2	..	..	1	..	1	..	..	..	..	..

CAUSES OF DEATH IN THE TOWN OF BROCKVILLE, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1. 0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	30 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	178	32	3	.....	2	.....	4	.....	1	14	12	16	24	27	25	18	.....	84	94	.....	127	47	4	70	108	.....	13	15	13	20	18	13	14	12	22	14	13	11
I.—General Diseases.																																						
Group Total	56	2	1	..	2	..	1	..	..	11	6	7	11	10	4	1	..	28	28	....	41	14	1	19	37	....	6	4	2	6	6	2	6	4	6	5	5	4
1. Typhoid fever	6	....	..	..	..	..	..	..	..	5	..	1	....	..	..	..	..	3	3	....	5	1	....	5	1	....	..	..	..	1	..	..	1	..	..	2	1	1
6. Measles	1	....	..	..	1	..	..	..	..	..	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1	..
8. Whooping cough	4	2	1	..	..	..	1	..	..	..	..	..	....	..	..	..	..	2	2	....	4	....	....	4	....	....	..	..	..	2	1	..	1	..	..	..	..	..
28. Tuberculosis of the lungs	17	....	..	..	..	..	..	..	..	5	4	2	4	1	1	..	..	11	6	....	11	6	....	6	11	....	3	1	1	1	1	1	2	2	2	1	1	1
30. Tuberculous meningitis	1	....	..	..	1	..	..	..	..	..	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
31. Abdominal tuberculosis	3	....	..	..	..	..	..	..	..	1	1	..	....	1	..	..	..	....	3	....	2	1	....	....	3	....	1	..	..	..	..	..	..	1	..	..	1	..
34. Tuberculosis of other organs	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	4	....	..	..	..	..	..	..	..	....	..	1	....	1	1	1	..	4	....	....	2	2	....	1	3	....	..	1	..	1	..	..	1	..	..	..	1	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	3	....	..	..	..	..	..	..	..	....	..	..	....	2	1	..	..	2	1	....	3	....	....	1	2	....	..	..	..	..	..	..	..	..	1	..	..	1
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	8	....	..	..	..	..	..	..	..	....	..	..	5	3	..	..	..	3	5	....	5	2	1	....	8	....	..	..	..	..	2	1	1	1	2	..	..	..
50. Diabetes	2	....	..	..	..	..	..	..	..	....	..	1	....	..	1	..	..	....	2	....	2	....	....	....	2	....	..	1	..	..	..	..	..	..	..	..	..	..	1
54. Anæmia, chlorosis	3	....	..	..	..	..	..	..	..	....	..	..	1	2	..	..	..	1	2	....	2	1	....	....	3	....	..	1	..	..	..	..	..	..	..	..	..	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	18	5	..	..	..	..	..	..	..	1	..	1	2	5	3	1	..	7	11	....	16	2	....	8	10	....	..	1	2	..	2	2	2	..	4	1	..	2
61. Simple meningitis	2	1	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	2	....	2	....	....	1	1	....	..	..	1	..	..	..	..	..	1	..	..	..
63. Other diseases of the spinal cord	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	9	....	..	..	..	..	..	..	..	....	..	1	1	3	3	1	..	3	6	....	8	1	....	2	7	....	..	..	1	1	1	1	1	..	1	1	..	2
66. Paralysis without specified cause	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
71. Convulsions of infants	2	2	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	..	..	..	..	..	..	1	..	1	..	..	..
74. Other diseases of the nervous system	2	....	..	..	..	..	..	..	..	1	..	..	....	1	..	..	..	1	1	....	2	....	....	1	1	....	..	1	..	..	..	1	..	..	..	..	..	..
76. Diseases of the ears	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
III.—Diseases of the Circulatory System.																																						
Group Total	27	....	..	..	..	..	1	..	..	....	3	3	2	4	10	4	..	16	11	....	13	13	1	5	22	....	3	..	1	2	4	4	3	1	2	1	2	4
78. Acuto endocarditis	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
79. Organic diseases of the heart	18	....	..	..	..	..	..	..	..	....	1	3	2	4	6	2	..	8	10	....	9	9	....	3	15	....	1	..	..	1	4	3	1	1	1	2	3
80. Angina pectoris	2	....	..	..	..	..	..	..	..	....	2	..	....	..	..	..	..	2	....	....	1	....	1	1	1	....	..	..	1	..	..	1	..	..	..	..	..	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	6	....	..	..	..	..	..	..	..	....	..	..	....	..	4	2	..	5	1	....	2	4	....	....	6	....	2	..	..	..	..	..	2	..	1	..	..	1
IV.—Diseases of the Respiratory System.																																						
Group Total	11	4	..	..	..	..	1	..	..	....	..	..	3	2	1	..	..	4	7	....	9	2	....	6	5	....	2	1	1	2	3	1	..	..	..	1	..	..
90. Chronic bronchitis	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
91. Broncho-pneumonia	3	2	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	2	....	2	1	....	2	1	....	..	..	..	1	1	..	..	..	..	1	..	..
92. Pneumonia	7	2	..	..	..	..	1	..	..	....	..	..	3	1	..	..	..	3	4	....	6	1	....	4	3	....	2	1	..	1	2	1	..	..	..	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	21	6	..	..	..	..	1	..	..	1	1	4	4	3	1	..	..	8	13	....	17	3	1	10	11	....	..	2	2	1	1	2	1	2	3	3	4	..
102. Ulcer of the stomach	2	....	..	..	..	..	..	..	..	....	..	1	....	1	..	..	..	....	2	....	1	....	1	1	1	....	..	..	..	..	..	..	1	..	..	1	..	..
104. Diarrhœa and enteritis (under 2 years)	6	6	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	5	....	6	....	....	6	....	....	..	..	..	1	..	..	1	1	1	1	1	..
108. Appendicitis and typhlitis	3	....	..	..	..	..	1	..	..	....	1	1	....	..	..	..	..	3	....	....	2	1	....	1	2	....	..	..	..	..	..	..	..	..	..	2	1	..
109. Hernias, intestinal obstructions	2	....	..	..	..	..	..	..	..	1	..	..	....	1	..	..	..	1	1	....	2	....	....	....	2	....	..	..	1	..	..	..	..	..	1	..	..	..
110. Diseases of the intestines	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
111. Acute yellow atrophy of the liver	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
113. Cirrhosis of the liver	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
115. Other diseases of the liver	2	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	2	....	....	1	1	....	....	2	....	..	..	..	1	1	..	..	..	..	..	..	..
117. Simple peritonitis (non-puerperal)	3	....	..	..	..	..	..	..	..	....	..	2	1	..	..	..	..	1	2	....	3	....	....	1	2	....	..	1	..	..	1	..	..	..	..	..	1	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	5	....	..	..	..	..	..	..	..	....	1	..	1	1	1	1	..	3	2	....	3	2	....	....	5	....	..	..	1	1	1	..	..	..	1	1	..	..
120. Bright's disease	3	....	..	..	..	..	..	..	..	....	1	..	....	1	1	..	..	1	2	....	3	....	....	....	3	....	..	..	..	1	..	..	..	..	..	1	1	..
126. Diseases of the prostate	2	....	..	..	..	..	..	..	..	....	..	..	1	..	..	1	..	2	....	....	....	2	....	....	2	....	..	..	..	1	1	..	..	..	..	..	..	..
VII.—The Puerperal State.																																						
Group Total	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
137. Puerperal septicæmia	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	3	....	..	..	..	..	..	..	..	....	..	..	....	1	..	2	..	3	....	....	1	2	....	....	3	....	1	..	..	..	..	1	..	..	1	..	..	..
142. Gangrene	2	....	..	..	..	..	..	..	..	....	..	..	....	1	..	1	..	2	....	....	1	1	....	....	2	....	1	..	..	..	..	..	..	..	1	..	..	..
144. Acute abscess	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..

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CAUSES OF DEATH IN THE TOWN OF COBALT, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	89	49	2	.....	.....	.....	.....	1	.....	14	8	2	6	3	.....	.....	4	60	29	.....	69	10	10	62	17	10	8	10	10	2	9	6	4	6	11	6	3	14
I.—General Diseases.																																						
Group Total	15	1	1	..	..	..	..	..	..	5	2	2	2	1	..	..	1	11	4	....	8	3	4	4	7	4	1	1	2	..	2	1	1	1	2	1	1	2
1. Typhoid fever	3	....	..	..	..	..	..	..	..	1	1	..	1	..	..	..	..	3	....	....	2	1	....	....	2	1	..	..	..	..	..	..	..	1	1	1	..
9. Diphtheria and croup	2	1	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	..	..	1	..	..	..	..	..	..	..	..	1
28. Tuberculosis of the lungs	4	....	..	..	..	..	..	..	..	1	1	2	....	..	..	..	..	3	1	....	3	....	1	2	1	1	1	..	..	..	..	1	1	..	1	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	2	....	..	..	..	..	..	..	..	1	..	..	....	1	..	..	..	1	1	....	....	....	2	....	2	....	..	..	..	..	1	..	..	1	..	..	..	..
50. Diabetes	2	....	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	1	1	....	....	2	....	....	1	1	..	..	1	..	..	1	..	..	..	..	..	..	..
54. Anæmia, chlorosis	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	....	....	1	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	8	4	..	..	..	..	..	1	..	2	..	..	1	..	..	..	..	5	3	....	7	1	....	7	1	....	1	1	..	2	..	..	..	..	1	..	..	3
61. Simple meningitis	2	....	..	..	..	..	..	1	..	1	..	..	....	..	..	..	..	1	1	....	2	....	....	1	1	....	..	..	..	1	..	..	..	..	..	..	..	1
64. Cerebral hæmorrhage, apoplexy	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
71. Convulsions of infants	3	3	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	3	....	....	3	....	....	3	....	....	1	1	..	..	..	..	..	..	..	..	..	1
73. Neuralgia and neuritis	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	....	1	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
76. Diseases of the ears	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	3	....	..	..	..	..	..	..	..	....	1	..	1	..	..	..	1	2	1	....	2	....	1	....	2	1	..	1	1	..	..	..	..	..	..	..	1	..
79. Organic diseases of the heart	2	....	..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	1	1	....	2	....	....	....	2	....	..	1	..	..	..	..	..	..	..	..	1	..
83. Diseases of the veins (varices, hæmorrhoids, phlebitis, etc.)	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	....	....	1	....	....	1	..	..	1	..	..	..	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	7	3	..	..	..	..	..	..	..	1	1	..	....	..	..	..	2	5	2	....	5	1	1	4	2	1	..	2	1	..	1	..	1	..	..	..	..	2
89. Acute bronchitis	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
92. Pneumonia	4	1	..	..	..	..	..	..	..	1	1	..	....	..	..	..	1	4	....	....	3	1	....	1	2	1	..	2	1	..	..	..	1	..	..	..	..	..
93. Pleurisy	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	....	....	1	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
94. Pulmonary congestion, pulmonary apoplexy	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1

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CAUSES OF DEATH IN THE TOWN OF COBOURG, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	116	10	2	1	1	.....	.....	.....	2	6	7	6	9	24	25	17	6	54	62	.....	67	25	24	43	65	8	18	8	8	7	5	7	10	12	10	10	13	8
I.—General Diseases.																																						
Group Total	26	....	2	1	1	..	..	..	1	4	1	2	3	7	4	..	..	11	15	....	22	3	1	12	13	1	2	1	2	2	2	4	..	4	3	2	2	2
1. Typhoid fever	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	....	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
9. Diphtheria and croup	1	....	2.	1	1	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	....	1	....	....	....	....	..	..	..	..	..	..	..	1	..	..	2.	1
28. Tuberculosis of the lungs	7	....	..	..	..	..	..	..	..	4	1	1	....	1	..	..	..	4	3	....	7	....	....	6	1	....	1	..	2	..	..	2	..	..	..	1	..	1
39. Cancer and other malignant tumors of the buccal cavity	3	....	..	..	..	..	..	..	..	....	..	..	1	..	2	..	..	3	....	....	2	1	....	1	2	....	..	..	..	..	1	1	..	1	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	4	....	..	..	..	..	..	..	..	....	..	1	1	1	1	..	..	2	2	....	3	....	1	....	3	1	..	1	..	1	..	1	..	1	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	....	2	....	2	....	....	....	2	....	..	..	..	..	1	..	..	..	..	1	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	3	....	..	..	..	..	..	..	..	....	..	..	....	2	1	..	..	1	2	....	2	1	....	....	3	....	1	..	..	..	..	..	..	..	2	..	..	..
50. Diabetes	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	15	2	..	..	..	..	..	..	..	1	..	..	4	3	..	1	4	3	12	....	7	2	6	4	10	1	6	2	1	..	1	..	2	2	..	..	1	..
61. Simple meningitis	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	5	....	..	..	..	..	..	..	..	....	..	..	1	2	..	1	1	1	4	....	3	....	2	1	4	....	2	..	1	..	..	..	..	1	..	1	..
65. Softening of the brain	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	....	....	1	....	....	1	1	..	..	..	..	..	..	..	..	..	..	..
66. Paralysis without specified cause	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	....	1	....	....	....	1	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
71. Convulsions of infants	2	2	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	2	....	2	....	....	2	....	....	1	..	..	..	..	..	..	1	..	..	..	..
73. Neuralgia and neuritis	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
74. Other diseases of the nervous system	4	....	..	..	..	..	..	..	..	....	..	..	2	1	..	..	1	1	3	....	....	2	2	....	4	....	1	1	..	..	..	..	..	1	1	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	19	....	..	..	..	..	..	..	..	....	1	2	....	9	4	3	..	10	9	....	8	6	5	5	13	1	3	..	1	2	2	1	2	3	1	..	2	2
79. Organic diseases of the heart	14	....	..	..	..	..	..	..	..	....	1	1	....	7	2	3	..	6	6	....	6	4	4	5	9	....	3	..	1	2	2	1	2	2	1	..	..	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	5	....	..	..	..	..	..	..	..	....	..	1	....	2	2	..	..	4	1	....	2	2	1	....	4	1	..	..	..	..	..	..	..	1	..	..	2	2

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CAUSES OF DEATH IN THE TOWN OF COLLINGWOOD, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	96	26		2	.....	.....		2	1	1	3	4	6	6	13	20	11	1	50	45	1	67	25	4	41	54	1	9	12	9	9	5	10	9	3	10	6	5	9
I.—General Diseases.																																							
Group Total	22	4	..	..	..	..	..	1	1	..	1	3	2	1	6	3	..	..	8	14	....	18	1	3	9	13	....	2	2	1	1	..	4	3	2	3	1	1	2
1. Typhoid fever	1	....	..	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
8. Whooping cough	3	3	..	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	....	3	....	3	....	....	3	....	....	..	..	..	..	1	..	1	..	..	..	..	..
9. Diphtheria and croup	2	....	..	..	..	..	..	1	1	..	....	..	..	..	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	1	..	1	..	..	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	1	....	....	....	....	1	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
28. Tuberculosis of the lungs	6	1	..	..	..	..	..	..	..	..	1	2	..	....	2	..	..	..	3	3	....	6	....	....	3	3	....	1	..	1	..	..	2	..	..	1	..	1	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..	..
40. Cancer and other malignant tumors of the stomach, liver	1	....	..	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	1	....	..	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
47. Acute articular rheumatism	1	....	..	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	....	1	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	....	1	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
50. Diabetes	1	....	..	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	3	....	..	..	..	..	..	..	..	..	....	1	1	....	1	..	..	..	1	2	....	3	....	....	....	3	....	..	..	..	..	..	1	1	..	1	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																							
Group Total	8	....	2	..	..	..	..	..	1	....	..	..	....	1	2	2	..	..	6	2	....	5	3	....	3	5	....	1	1	..	1	1	2	..	..	1	1	..	..
60. Encephalitis	1	....	..	..	..	..	..	..	1	....	..	..	....	1	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
63. Other diseases of the spinal cord	1	....	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	4	....	..	..	..	..	..	..	..	..	....	..	..	....	1	1	2	..	4	....	....	1	3	....	....	4	....	1	1	..	..	..	1	..	..	1	..	..	..
66. Paralysis without specified cause	1	....	..	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
71. Convulsions of infants	1	....	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																							
Group Total	9	....	..	..	..	..	..	..	..	..	....	..	1	3	3	2	..	..	7	2	....	6	3	....	1	8	....	2	2	..	..	..	..	1	1	1	..	2
79. Organic diseases of the heart	9	....	..	..	..	..	..	..	..	..	....	..	1	3	3	2	..	..	7	2	....	6	3	....	1	8	....	2	2	..	..	..	..	1	1	1	..	2
IV.—Diseases of the Respiratory System.																																							
Group Total	8	2	..	..	..	..	..	..	..	..	....	..	..	2	..	2	2	..	3	5	....	6	2	....	3	5	....	..	1	2	1	..	1	..	..	1	..	1	1
89. Acute bronchitis	1	1	..	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
92. Pneumonia	4	1	..	..	..	..	..	..	..	..	....	..	..	1	..	..	2	..	2	2	....	3	1	....	2	2	....	..	..	1	1	..	1	..	..	..	..	..	1

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CAUSES OF DEATH IN THE TOWN OF CORNWALL, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	164	25	5	.....	.....	.....	.....	7	2	4	8	14	13	9	18	24	32	3	83	80	1	119	10	35	69	83	12	10	14	15	13	17	9	21	22	12	7	7	8
I.—General Diseases.																																							
Group Total	40	3	2	..	..	..	..	2	..	..	2	7	6	5	6	2	4	1	18	22	....	26	3	11	17	20	3	5	3	2	6	7	2	4	6	..	1	1	3
1. Typhoid fever	4	....	..	..	..	..	..	1	..	..	....	1	2	....	..	..	..	..	3	1	....	3	....	1	2	2	....	..	1	1	..	..	..	..	2	..	..	..	..
7. Scarlet fever	1	....	..	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
8. Whooping cough	3	2	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	1	....	3	....	....	3	....	....	..	..	..	..	1	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	5	....	..	..	..	..	..	..	..	..	1	3	..	....	..	..	1	..	....	5	....	2	2	1	....	4	1	2	..	..	..	2	..	1	..	..	..	1	..
30. Tuberculous meningitis	1	1	..	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
31. Abdominal tuberculosis	4	....	..	..	..	..	..	..	..	..	....	1	1	....	1	..	1	..	3	1	....	1	....	3	3	1	....	..	..	..	..	1	..	..	2	..	..	..	..
34. Tuberculosis of other organs	1	....	..	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
36. Rickets	1	....	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	....	1	....	....	1	..	1	..	..	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	3	....	..	..	..	..	..	..	..	..	....	..	1	1	1	..	..	..	....	3	....	3	....	....	1	2	....	..	..	..	1	..	..	1	..	..	1	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	3	....	..	..	..	..	..	..	..	..	....	..	..	2	1	..	..	..	....	3	....	2	1	....	1	2	....	..	..	..	2	..	..	1	..	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	5	....	..	..	..	..	..	..	..	..	....	..	..	2	..	1	2	..	1	4	....	3	....	2	2	3	....	1	..	..	..	1	..	2	1	..	..	..	..
47. Acute articular rheumatism	1	....	..	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	..	..	..	....	..	1	....	..	1	..	..	2	....	....	....	....	2	....	2	....	1	..	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	3	....	..	..	..	..	..	..	..	..	....	..	..	....	2	..	..	1	2	1	....	2	....	1	1	1	1	..	..	..	1	2	..	..	..	..	..	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																							
Group Total	15	2	2	..	..	..	..	1	1	..	....	..	..	1	3	3	2	..	7	8	....	14	....	1	6	18	1	..	1	1	1	..	1	4	4	..	1	2	..
61. Simple meningitis	4	1	1	..	..	..	..	1	1	..	....	..	..	....	..	..	..	..	3	1	....	4	....	....	4	....	....	..	..	..	..	..	..	2	2	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	7	....	..	..	..	..	..	..	..	..	....	..	..	1	2	3	1	..	3	4	....	6	....	1	....	6	1	..	1	1	1	..	..	1	1	..	1	1	..
65. Softening of the brain	1	....	..	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
66. Paralysis without specified cause	1	....	..	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
71. Convulsions of infants	2	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	2	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	..	..	..	..

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CORNWALL—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
X.—Malformations.																																						
Group Total	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
150. Congenital malformations (still-births not included)	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
XI.—Diseases of Early Infancy.																																						
Group Total	9	9	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	4	4	1	9	....	....	9	....	....	..	1	2	..	..	1	1	..	1	1	..	2
151. Congenital debility, icterus, and sclerema	9	9	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	4	4	1	9	....	....	9	....	....	..	1	2	..	..	1	1	..	1	1	..	2
154. XII.—Old Age.																																						
Group Total	23	....	..	..	..	..	..	..	..	....	..	..	....	..	7	16	..	12	11	....	13	2	8	6	15	2	5	4	2	2	..	1	2	4	1	1	..	1
XIII.—Affections Produced by External Causes.																																						
Group Total	8	....	..	..	..	..	..	..	1	2	..	2	....	1	1	1	..	6	2	....	7	....	1	3	5	....	1	..	2	..	1	1	1	1	..	..	1	..
169. Accidental drowning	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	2	....	..	..	..	..	..	..	1	1	..	..	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	..	1	1	..	..	..	..	..
181. Electricity (lightning excepted)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
185. Fractures (cause not specified)	2	....	..	..	..	..	..	..	..	....	..	..	....	..	1	1	..	....	2	....	1	....	1	....	2	....	..	..	..	..	..	1	..	..	1	..	..	..
186. Other external violence	2	....	..	..	..	..	..	..	..	....	..	1	....	1	..	..	..	2	....	....	2	....	....	....	2	....	..	..	1	..	..	..	..	..	..	..	1	..
XIV.—Ill-Defined Diseases.																																						
Group Total	3	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	2	3	....	....	1	....	2	1	....	2	..	..	..	..	2	..	..	..	..	1	..	..
189. Cause of death not specified or ill-defined	3	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	2	3	....	....	1	....	2	1	....	2	..	..	..	..	2	..	..	..	..	1	..	..
Still-Births.																																						
Not included in totals	9	9	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	4	5	....	9	....	....	9	....	....	1	..	2	..	1	..	2	1	..	1	..	1

CAUSES OF DEATH IN THE TOWN OF GALT, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	0-1 2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	127	14	1	5	21	.....	3	4	2	9	14	8	12	12	24	17	.....	74	53	.....	75	43	9	42	73	12	10	10	18	16	10	11	8	9	5	6	6	9
I.—General Diseases.																																						
Group Total	30	1	..	1	..	..	1	..	1	5	5	4	5	1	5	1	..	12	18	....	21	7	2	11	16	3	3	4	3	4	2	5	1	1	2	1	2	2
1. Typhoid fever	2	....	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	....	2	....	2	....	....	....	1	1	....	..	..	..	..	..	..	..	..	..	..	..	..
7. Scarlet fever	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..	..
8. Whooping cough	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..	..
10. Influenza	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..	..
18. Erysipelas	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1	..
28. Tuberculosis of the lungs	2	....	..	..	..	..	..	..	..	1	..	..	....	1	..	..	..	1	1	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..	..
31. Abdominal tuberculosis	6	....	..	1	..	..	..	..	1	....	1	2	....	1	..	..	..	2	4	....	2	3	1	1	1	....	..	1	1	..	..	..	..	..	..	..	..	..
34. Tuberculosis of other organs	2	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	2	..	1	..	..	1	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	3	....	..	..	..	..	..	..	..	....	..	..	1	..	2	..	..	1	2	....	3	....	....	....	2	1	..	1	..	1	..	..	..	..	1	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	2	....	..	..	..	..	..	..	..	....	..	2	....	..	..	..	..	....	2	....	1	1	....	1	1	....	1	..	..	..	..	..	..	..	..	..	1	..	..
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	2	....	....	1	1	....	....	2	....	..	..	..	..	..	1	..	1	..	..	..	..	..
51. Exophthalmic goitre	3	....	..	..	..	..	..	..	..	1	1	..	1	..	..	..	..	....	3	....	3	....	....	1	2	....	..	1	..	..	..	1	..	..	..	..	..	..	..
54. Anæmia, chlorosis	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	1	1	..	..	..	..	..	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	12	....	1	1	1	..	1	..	..	....	..	..	2	2	4	..	..	8	4	....	6	5	1	4	7	1	2	2	2	3	..	1	1	..	..	..	1	..
61. Simple meningitis	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..	..
66. Paralysis without specified cause	7	....	..	..	..	..	..	..	..	....	..	..	2	1	4	..	..	5	2	....	3	4	....	....	6	1	..	2	1	1	..	1	1	..	..	..	1	..
70. Convulsions (non-puerperal)	2	....	..	1	1	..	..	..	..	....	..	..	....	..	..	..	..	2	....	....	1	1	....	....	....	....	..	..	..	..	..	..	..	..	..	..	..	..
71. Convulsions of infants	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	....	....	....	....	....	....	..	..	..	..	..	..	..	..	..	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
III.—Diseases of the Circulatory System.																																						
Group Total	10	....	..	..	..	..	..	1	..	....	..	..	1	6	2	..	..	7	3	....	5	5	....	1	9	....	2	1	1	1	1	2	..	2	..	..	..	..
78. Acute endocarditis	4	....	..	..	..	..	..	1	..	....	..	..	1	2	..	..	..	4	....	....	2	2	....	1	3	....	1	..	..	1	..	1	..	1	..	..	..	..
79. Organic diseases of the heart	4	....	..	..	..	..	..	..	..	....	..	..	....	3	1	..	..	3	2	....	2	2	....	....	4	....	..	1	1	..	..	1	..	1	..	..	..	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	2	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	1	1	....	1	1	....	....	2	....	1	..	..	..	1	..	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	12	2	..	1	1	..	..	..	..	....	2	1	1	..	3	1	..	7	5	....	7	3	2	4	7	1	2	1	4	1	2	..	..	..	2	..	..
90. Chronic bronchitis	2	....	..	..	..	..	..	..	..	....	1	..	....	..	1	..	..	2	....	....	1	1	....	....	1	1	..	..	1	1	..	..	..	..	..	..	..	..
92. Pneumonia	9	2	..	1	1	..	..	..	..	....	1	..	1	..	2	1	..	5	4	....	5	2	2	4	5	....	2	1	3	..	2	..	..	..	1	..	..
96. Asthma	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..
V.—Diseases of the Digestive System.																																						
Group Total	13	1	..	..	..	..	1	1	1	1	3	2	1	1	..	1	..	7	6	....	10	1	2	6	6	1	3	1	2	..	..	..	2	..	1	2	..	2
100. Diseases of the pharynx	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
102. Ulcer of the stomach	2	....	..	..	..	..	1	..	..	....	..	..	....	1	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	2	..	..	..	..	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	2	....	..	..	..	..	..	..	..	....	..	2	....	..	..	..	..	1	1	....	1	1	....	....	2	....	..	1	..	..	..	..	..	..	1	..	..
104. Diarrhœa and enteritis (under 2 years)	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
108. Appendicitis and typhlitis	3	....	..	..	..	..	..	1	..	....	2	..	....	..	..	..	..	3	....	....	2	....	1	2	1	....	2	..	..	..	..	..	1	..	..	..	..	..
109. Hernias, intestinal obstructions	2	....	..	..	..	..	..	..	..	....	..	..	1	..	1	..	..	1	1	....	1	....	1	....	1	1	..	..	..	..	..	..	..	..	1	..	1
117. Simple peritonitis (non-puerperal)	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	....	2	....	2	....	....	1	1	....	..	..	..	..	..	..	1	..	..	..	..	1
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	4	....	..	..	..	..	..	1	..	....	..	..	....	?	1	..	..	4	....	....	2	2	....	1	3	....	1	1	1	..	..	..	..	1	..	..	..	..
120. Bright's disease	3	....	..	..	..	..	..	1	..	....	..	..	....	1	1	..	..	3	....	....	2	1	....	1	2	....	1	1	..	..	..	..	..	1	..	..	..	..
126. Diseases of the prostate	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	1	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
VII.—The Puerperal State.																																						
Group Total	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	....	2	....	1	1	....	....	2	....	..	..	1	1	..	..	..	..	..	..	..	..
138. Puerperal albuminuria and convulsions	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	....	2	....	1	1	....	....	2	....	..	..	1	1	..	..	..	..	..	..	..	..
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
144. Acute abscess	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..

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OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	113	16		3	3	2	.....	5	2	5	12	22	7	11	11	6	3	5	68	45	.....	74	25	14	58	33	22	6	8	7	4	17	11	9	11	10	9	7	14
I.—General Diseases.																																							
Group Total	28	1		2	1	1	..	3	2	1	2	6	2	2	3	..	1	1	13	15	....	20	5	3	17	9	2	1	1	3	1	6	1	2	3	2	4	3	1
1. Typhoid fever	2	....		..	..	..	..	..	..	..	....	2	..	....	..	..	..	..	1	1	....	....	1	1	2	....	....	..	1	..	..	..	..	1	..	..	..	..	..
6. Measles	2	1		..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	..	1	..	..	..	..	..	..
7. Scarlet fever	4	....		..	..	1	..	3	..	..	1	..	..	....	..	..	..	..	1	3	....	4	....	....	4	....	....	..	..	..	..	3	1	..	..	..	..	..	..
8. Whooping cough	1	....		1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..	..
14. Dysentery	1	....		1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
18. Erysipelas	1	....		..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
28. Tuberculosis of the lungs	6	....		..	..	..	..	..	1	..	....	1	1	1	1	....	..	1	1	5	....	4	2	....	1	5	....	..	..	..	..	1	..	..	..	..	..	..	1
30. Tuberculous meningitis	1	....		..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
37. Syphilis	1	....		..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	....	1	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	2	....		..	..	..	..	..	..	..	....	1	..	....	1	..	..	..	2	....	....	1	1	....	....	1	1	1	..	..	..	1	..	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	1	....		..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
47. Acute articular rheumatism	1	....		..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
50. Diabetes	1	....		..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	1	....		..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..	..
55. Other general diseases	1	....		1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	2	..	..	..	..
56. Alcoholism (acute or chronic)	2	....		..	..	..	..	..	..	..	....	1	..	....	1	..	..	..	2	....	....	....	1	....	1	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																							
Group Total	4	1		..	..	..	..	..	..	..	1	2	..	....	..	..	..	..	1	3	....	2	2	....	3	....	1	..	..	..	1	..	1	..	1	..	..	..	1
61. Simple meningitis	2	1		..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	2	....	1	1	....	2	....	....	..	..	..	1	..	..	..	..	..	..	..	1
69. Epilepsy	1	....		..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
73. Neuralgia and neuritis	1	....		..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
III.—Diseases of the Circulatory System.																																							
Group Total	16	....		..	..	..	..	..	..	..	....	3	1	3	3	3	2	1	11	5	....	8	4	4	3	8	5	2	1	2	..	1	1	2	1	1	2	2	1
79. Organic diseases of the heart	8	....		..	..	..	..	..	..	..	....	3	1	....	2	1	1	..	4	4	....	3	2	3	3	2	3	1	..	1	..	1	..	1	1	1	1	1	1
81. Diseases of the arteries, atheroma, aneurysm, etc.	8	....		..	..	..	..	..	..	..	....	..	..	3	2	..	2	..	7	1	....	5	2	1	....	6	2	..	..	1	..	..	1	..	..	..	..	..	..

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CAUSES OF DEATH IN THE TOWN OF LINDSAY, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	103	17	2	2	.....	.....	2	2	2	9	9	9	9	10	18	12	.....	57	46	.....	79	13	11	45	56	2	15	5	13	4	7	9	9	5	13	6	10	7
I.—General Diseases.																																						
Group Total	25	3	..	1	..	..	1	1	..	3	3	6	2	1	3	1	..	13	12	....	19	4	2	11	14	....	2	2	3	1	4	4	1	1	3	2	..	2
1. Typhoid fever	3	....	..	..	..	..	..	..	..	1	..	2	....	..	..	..	..	1	2	....	3	....	....	2	1	....	..	..	..	..	1	2	..	..	..	..	..	..
8. Whooping cough	3	3	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	2	....	3	....	....	3	....	....	..	..	1	..	..	1	1	..	..	..	..	..
10. Influenza	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	7	....	..	..	..	..	1	1	..	2	1	2	....	..	..	..	..	5	2	....	5	1	1	4	3	....	..	1	1	..	1	..	1	1	1	1	..
40. Cancer and other malignant tumors of the stomach, liver	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	3	....	..	..	..	..	..	..	..	....	..	..	1	1	..	1	..	1	2	....	1	1	1	....	3	....	..	..	1	..	..	..	..	..	1	1	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	3	....	..	..	..	..	..	..	..	....	1	..	....	..	2	..	..	1	2	....	2	1	....	....	3	....	1	1	..	..	..	..	..	..	..	..	1	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
50. Diabetes	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
54. Anæmia, chlorosis	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	7	....	..	..	..	..	1	..	..	....	..	2	2	1	1	..	..	3	4	....	6	1	....	3	3	1	1	..	1	1	..	..	1	1	..	..	2	..
61. Simple meningitis	2	....	..	..	..	..	1	..	..	....	..	1	....	..	..	..	..	1	1	....	1	1	....	....	1	1	1	..	..	..	1	..	..	1	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	2	....	..	..	..	..	..	..	..	....	..	..	1	..	1	..	..	1	1	....	2	....	....	2	....	....	1	..	..	..	..	..	..	..	1	..	..	..
66. Paralysis without specified cause	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
70. Convulsions (non-puerperal)	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	1	1	....	2	....	....	....	2	....	..	..	..	..	..	..	..	..	..	2	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	11	....	..	..	..	..	..	..	..	1	..	..	1	3	3	3	..	5	6	....	7	2	2	3	8	....	..	..	1	..	1	..	3	1	2	1	..	2
79. Organic diseases of the heart	7	....	..	..	..	..	..	..	..	1	..	..	1	2	2	1	..	2	5	....	4	1	2	3	4	....	..	..	..	..	1	..	3	1	1	..	..	1
81. Diseases of the arteries, atheroma, aneurysm, etc.	4	....	..	..	..	..	..	..	..	....	..	..	....	1	1	2	..	3	1	....	3	1	....	....	4	....	..	..	1	..	..	..	..	..	1	1	..	1

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CAUSES OF DEATH IN THE TOWN OF NORTH BAY, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	141	36	5	6	4	2	4	4	4	16	18	7	9	8	4	5	9	88	53	.....	104	16	21	83	50	8	9	8	11	10	8	16	22	14	16	7	11	9
I.—General Diseases.																																						
Group Total	31	3	1	1	3	..	2	..	3	5	4	1	3	5	..	..	..	19	12	....	22	5	4	17	14	....	2	2	3	3	4	4	1	2	1	2	2	2
1. Typhoid fever	3	....	..	..	..	..	1	..	1	1	..	..	....	..	..	..	..	2	1	....	3	....	....	3	....	....	..	..	..	..	1	..	..	..	..	2	..	..
6. Measles	2	1	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	2	....	2	....	....	2	....	....	..	..	..	..	1	1	..	..	..	..	..	..
9. Diphtheria and croup	6	1	..	1	3	..	1	..	..	....	..	..	....	..	..	..	..	5	1	....	6	....	....	6	....	....	1	1	..	1	..	2	1	..	..	..	..	..
18. Erysipelas	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	..	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	10	....	..	..	..	..	..	..	2	4	3	..	1	..	..	..	..	7	3	....	5	2	3	3	7	....	1	..	..	2	..	1	1	1	2	..	..	1
40. Cancer and other malignant tumors of the stomach, liver	2	....	..	..	..	..	..	..	..	....	..	..	....	2	..	..	..	2	....	....	1	....	1	....	2	....	..	..	..	..	1	..	..	..	..	..	..	1
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	..	..	....	1	....	1	..	..	..	..	1	1	....	1	1	....	1	1	....	..	1	..	..	..	..	1	..	..	..	..	..
50. Diabetes	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	1	1	....	2	....	....	....	2	....	..	..	..	1	..	..	..	1	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	4	....	..	1	..	..	..	..	..	2	..	..	....	..	..	..	1	2	2	....	3	....	2	3	....	1	..	..	..	..	..	2	..	..	1	..	..	1
61. Simple meningitis	2	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	1	....	2	....	1	....	1	1	....	1	..	..	..	..	..	2	..	..	..	..	..	..
66. Paralysis without specified cause	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
73. Neuralgia and neuritis	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	....	....	1	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
III.—Diseases of the Circulatory System.																																					
Group Total	8	....	..	..	..	..	..	..	..	....	2	1	1	2	1	..	1	3	5	....	4	....	4	....	7	1	..	1	1	..	..	1	1	..	3	..	1	..
79. Organic diseases of the heart	4	....	..	..	..	..	..	..	..	....	2	..	1	1	..	..	..	1	3	....	3	....	1	....	4	....	..	..	1	..	..	1	1	..	..	..	1	..
81. Diseases of the Arteries, atheroma, aneurysm, etc.	3	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	1	2	1	....	1	....	2	....	2	1	..	1	..	..	..	..	..	..	2	..	..	..
82. Embolism and thrombosis	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	....	....	1	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..

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NORTH BAY—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
154. XII.—Old Age.																																						
Group Total	7	....	..	..	..	..	..	..	..	....	..	..	....	..	2	5	..	6	1	....	4	3	....	....	7	....	..	1	1	..	1	1	1	..	..	1	1	..
XIII.—Affections Produced by External Causes.																																						
Group Total	24	....	1	4	1	..	..	1	..	5	3	2	2	..	..	..	5	22	2	....	12	5	7	14	5	5	..	..	2	2	1	3	5	4	2	1	3	1
157. Suicide by hanging or strangulation	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	....	1	....	....	1	..	..	..	..	..	1	..	..	..	..	..	..
158. Suicide by drowning	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	....	....	....	....	....	....	..	..	..	..	..	..	..	..	..	..	..	..
167. Burns (conflagration excepted)	2	....	..	1	..	..	..	..	..	1	..	..	....	..	..	..	..	1	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
169. Accidental drowning	3	....	1	1	..	..	..	..	..	1	..	..	....	..	..	..	..	3	....	....	2	1	....	3	....	....	..	..	..	..	..	..	..	..	..	..	..	..
170. Traumatism by firearms	3	....	..	..	1	..	..	..	..	1	..	1	....	..	..	..	..	3	....	....	2	1	....	3	....	....	..	..	..	..	1	1	1	..	..	..	..	..
175. Traumatism by other crushing (vehicles, rail-road, landslides, etc.)	6	....	..	..	..	..	..	..	..	1	2	..	....	..	..	..	3	6	....	....	2	1	3	1	2	3	..	..	1	..	..	..	1	2	1	..	1	..
178. Excessive cold	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	....	....	1	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
179. Effects of heat	2	....	..	2	..	..	..	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	..	..	..	..
185. Fractures (cause not specified)	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
186. Other external violence	4	....	..	..	..	..	..	..	..	1	1	..	1	..	..	..	1	4	....	....	2	1	1	2	2	....	..	..	..	1	..	1	..	2	..	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	3	....	..	..	..	..	..	..	..	1	1	..	1	..	..	..	..	1	2	....	2	1	....	2	1	....	1	..	..	..	..	..	1	1	..	..	..	..
189. Cause of death not specified or ill-defined	3	....	..	..	..	..	..	..	..	1	1	..	1	..	..	..	..	1	2	....	2	1	....	2	1	....	1	..	..	..	..	..	1	1	..	..	..	..
Still-Births.																																						
Not included in totals	23	23	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	17	6	....	23	....	....	23	....	....	1	1	2	6	2	..	2	2	..	3	4	..

CAUSES OF DEATH IN THE TOWN OF NORTH TORONTO, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
		0-1																																			
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	47	14	3	1	1	.....	1	.....	1	3	3	7	4	1	4	4	.....	23	24	.....	25	22	.....	24	22	1	4	6	4	5	3	3	4	7	8	1	1	1
I.—General Diseases.																																					
Group Total	20	6	2	1	....	....	1	..	1	2	1	4	2	..	..	..	..	7	13	....	13	7	....	13	7	....	3	2	1	1	2	1	2	3	3	..	1	1
8. Whooping cough	8	6	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	4	4	....	8	....	....	8	....	....	1	..	..	1	1	..	1	1	3	..	..	..
9. Diphtheria and croup	1	....	..	..	..	..	..	..	1	..	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
18. Erysipelas	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	....	1	....	....	1	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	4	....	..	1	..	..	..	..	..	1	..	2	..	..	..	..	..	1	3	....	3	1	....	2	2	....	..	1	..	..	1	..	1	..	..	..	1	..
29. Acute miliary tuberculosis	1	....	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	....	1	....	....	1	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
31. Abdominal tuberculosis	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	1	..	..	..	..	..	..	....	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	3	....	..	..	..	..	..	..	..	....	1	1	....	1	..	..	..	2	1	....	...	3	....	....	3	....	....	..	2	..	..	..	..	1	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	3	....	..	..	..	..	..	..	..	....	1	1	....	1	..	..	..	2	1	....	....	3	....	....	3	....	....	..	2	..	..	..	..	1	..	..	..	..
III.—Diseases of the Circulatory System.																																					
Group Total	2	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	2	....	....	....	2	....	....	2	....	....	..	..	..	..	..	1	1	..	..	..	..
78. Acute endocarditis	2	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	2	....	....	....	2	....	....	2	....	....	..	..	..	..	..	1	1	..	..	..	..
IV.—Diseases of the Respiratory System.																																					
Group Total	5	1	1	..	..	..	..	..	..	....	..	1	2	..	..	..	..	3	2	....	2	3	....	2	3	....	..	1	..	1	..	1	1	1	..	..	..	..
92. Pneumonia	4	1	1	..	..	..	..	..	..	....	..	..	2	..	..	..	..	2	2	....	2	2	....	2	2	....	..	1	..	1	..	1	..	1	..	..	..	..
95. Gangrene of the lung	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
V.—Diseases of the Digestive System.																																						
Group Total	6	4	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	4	2	..	5	1	..	5	1	..	1	..	1	..	..	..	..	..	3	1	..	..
103. Other diseases of the stomach (cancer excepted)	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..
104. Diarrhœa and enteritis (under 2 years)	3	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	..	..	3	..	..	3	..	..	..	..	1	..	..	..	..	..	2	..	..	..
105. Diarrhœa and enteritis (2 years and over)	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..
113. Cirrhosis of the liver	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..
124. Diseases of the bladder	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..
VII.—The Puerperal State.																																						
Group Total	2	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	..	..	2	..	1	1	..	..	2	..	..	2	..	..	..	..	..	..	..	..	..	..
134. Accidents of pregnancy	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..
138. Puerperal albuminuria and convulsions	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..
X.—Malformations.																																						
Group Total	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..
150. Congenital malformations (still-births not included)	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	..
XI.—Diseases of Early Infancy.																																						
Group Total	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	2	..	..	2	..	..	..	..	..	1	..	..	..	1	..	..	..	..
151. Congenital debility, icterus, and sclerema	2	2	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	..	..	2	..	..	2	..	..	..	..	..	1	..	..	..	1	..	..	..	..
154. XII.—Old Age.																																						
Group Total	3	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	..	1	2	..	..	3	..	..	2	1	..	1	..	1	..	..	..	1	..	..	..	..
XIII.—Affections Produced by External Causes.																																						
Group Total	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..
169. Accidental drowning	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..
189. Cause of death not specified or ill-defined	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..
Still-Births.																																						
Not included in totals	4	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	3	1	..	4	..	..	4	..	..	..	2	..	1	..	..	1	..	..	..	..	..

CAUSES OF DEATH IN THE TOWN OF ORILLIA, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	103	28	1	.....	2	1	.....	2	1	7	7	8	3	11	21	10	1	47	56	.....	77	21	5	48	50	5	13	4	10	1	3	9	9	14	11	5	10	14
I.—General Diseases.																																						
Group Total	19	....	..	..	..	..	..	1	..	3	4	5	....	..	6	..	..	7	12	....	12	6	1	7	10	2	2	1	2	..	1	1	2	5	2	2	..	1
1. Typhoid fever	3	....	..	..	..	..	..	1	..	2	..	..	....	..	..	..	..	2	1	....	2	1	....	3	....	....	..	..	..	..	..	..	..	2	..	1	..	..
10. Influenza	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..	1
18. Erysipelas	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	7	....	..	..	..	..	..	..	..	1	4	2	....	..	..	..	..	2	5	....	7	....	....	2	5	....	2	1	..	..	..	1	2	..	1	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	1	....	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	3	....	..	..	..	..	..	..	..	....	..	1	....	..	2	..	..	1	2	....	1	1	1	2	....	1	..	..	..	..	..	1	1	..	1	..	..	..
50. Diabetes	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	13	2	..	....	..	1	..	1	..	....	..	1	1	2	4	1	..	4	9	....	9	1	3	6	6	1	33	..	2	..	....	..	2	3	..	1	2	..
60. Encephalitis	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
63. Other diseases of the spinal cord	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
64. Cerebral hæmorrhage, apoplexy	5	....	..	..	..	..	..	..	..	....	..	..	1	..	3	1	..	2	3	....	3	1	1	1	3	1	2	..	1	..	..	..	..	..	..	..	2	..
66. Paralysis without specified cause	2	....	..	..	..	..	..	..	..	....	..	1	....	1	..	..	..	1	1	....	1	....	1	1	1	....	..	..	..	..	..	..	2	..	..	..	..	..
70. Convulsions (non-puerperal)	1	....	..	..	..	1	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
71. Convulsions of infants	2	2	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	..	..	..	..
73. Neuralgia and neuritis	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	....	1	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	12	....	..	..	..	..	..	..	..	....	..	..	1	5	5	1	..	6	6	....	7	5	....	1	11	....	..	1	1	..	..	2	..	2	1	..	1	4
78. Acute endocarditis	2	....	..	..	..	..	..	..	..	....	..	..	....	1	1	..	..	1	1	....	1	1	....	....	2	....	..	1	1	..	..	..	..	..	..	..	..	..
79. Organic diseases of the heart	8	....	..	..	..	..	..	..	..	....	..	..	1	4	2	1	..	3	5	....	5	3	....	1	7	....	..	..	..	..	..	2	..	2	1	..	3	3
81. Diseases of the arteries, atheroma, aneurysm, etc.	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	1	....	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1
82. Embolism and thrombosis	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	1	....	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	53	34	35	36	37	38
IV.—Diseases of the Respiratory System.																																						
Group Total	12	4	..	..	..	..	..	..	..	1	1	2	1	..	1	1	1	4	8	....	12	....	....	8	4	....	1	..	2	....	1	..	..	1	..	2	5
89. Acute bronchitis	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..
91. Broncho-pneumonia	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1
92. Pneumonia	8	2	..	..	..	..	..	..	..	....	1	2	1	..	1	..	1	3	5	....	8	....	....	5	3	....	1	..	2	..	..	1	..	..	..	..	4
93. Pleurisy	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..
96. Asthma	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..
V.—Diseases of the Digestive System.																																						
Group Total	3	2	..	..	1	..	..	..	..	....	..	..	....	..	..	..	..	2	1	....	3	....	....	3	....	....	1	..	..	1	..	..	..	..	1	..	..	..
104. Diarrhœa and enteritis (under 2 years)	2	2	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	1	..	..	..	1	..	..	..
108. Appendicitis and typhlitis	1	....	..	..	1	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	7	....	..	..	..	..	..	..	..	....	1	..	....	4	1	1	..	6	1	....	4	2	1	1	5	1	1	1	..	..	..	..	..	1	..	1	1	2
120. Bright's disease	6	....	..	..	..	..	..	..	..	....	1	..	....	4	1	..	..	5	1	....	4	1	1	1	4	1	1	1	..	..	..	..	..	1	..	1	1	1
126. Diseases of the prostate	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
VII.—The Puerperal State.																																						
Group Total	3	....	..	..	..	..	..	..	1	2	..	..	....	..	..	..	..	....	3	....	3	....	....	....	3	....	1	..	..	..	1	1	..	..	..	..	..	..
134. Accidents of pregnancy	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
138. Puerperal albuminuria and convulsions	2	....	..	..	..	..	..	..	1	1	..	..	....	..	..	..	..	....	2	....	2	....	....	....	2	....	..	..	..	..	1	1	..	..	..	..	..	..
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..
142. Gangrene	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	1	..
X.—Malformations.																																						
Group Total	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..
150. Congenital malformations (still-births not included)	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..

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CAUSES OF DEATH IN THE TOWN OF OSHAWA, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	107	32	3	1	.....	2	2	.....	5	9	14	4	7	7	12	9	.....	61	46	.....	81	26	.....	52	55	.....	6	8	9	7	10	11	11	9	4	18	8	6
I.—General Diseases.																																						
Group Total	30	4	1	..	..	1	..	..	2	4	9	3	3	3	..	..	..	17	13	....	25	5	....	11	19	....	..	2	2	2	3	4	5	2	..	5	3	2
1. Typhoid fever	4	....	..	..	..	..	..	..	..	....	2	1	1	..	..	..	..	3	1	....	2	2	....	....	4	....	..	..	1	..	1	..	..	..	..	1	..	1
6. Measles	1	1	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	1	..	....	1	..	....	1	..	....	..	..	1	..	..	..	..	..	..	..	..	..
8. Whooping cough	5	3	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..	3	2	....	4	1	....	4	1	....	..	..	..	..	..	1	2	1	..	..	1	..
10. Influenza	1	....	..	..	..	..	..	..	1	....	..	..	..	..	..	..	..	1	..	....	1	..	....	1	..	....	..	..	..	..	..	..	..	..	..	1	..	..
28. Tuberculosis of the lungs	8	....	..	..	..	..	..	..	1	2	4	1	....	..	..	..	..	3	5	....	7	1	....	3	5	....	..	..	..	..	1	3	2	..	..	1	1	..
30. Tuberculous meningitis	2	....	..	..	..	1	..	..	..	1	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	1	..	..	..	..	..	1	..	..
40. Cancer and other malignant tumors of the stomach, liver	3	....	..	..	..	..	..	..	..	....	..	1	....	2	..	..	..	2	1	....	3	....	....	....	3	....	..	..	..	..	1	..	..	..	..	1	..	1
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
50. Diabetes	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
53. Leucæmia	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																											1										
Group Total	6	1	..	..	..	1	..	..	1	....	..	..	....	1	2	..	..	3	3	....	5	1	....	3	3	....	..	..	..	..	1	2	..	..	..	2	1	..
63. Other diseases of the spinal cord	1	....	..	..	..	1	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
64. Cerebral hæmorrhage, apoplexy	1	....	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	1	..	..	..	..	..
66. Paralysis without specified cause	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	1	1	....	1	1	....	....	2	....	..	..	..	..	..	..	..	..	..	2	..	..
69. Epilepsy	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
71. Convulsions of infants	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	11	....	..	..	..	..	..	..	..	1	1	..	3	1	3	2	..	4	7	....	6	5	....	1	10	....	..	2	..	..	..	..	1	2	1	3	1	1
78. Acute endocarditis	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
79. Organic diseases of the heart	8	....	..	..	..	..	..	..	..	....	1	..	2	1	3	1	..	2	6	....	4	4	....	....	8	....	..	1	..	..	..	..	1	2	..	2	1	1
81. Diseases of the arteries, atheroma, aneurysm, etc.	2	....	..	..	..	..	..	..	..	....	..	..	1	..	..	1	..	2	....	....	1	1	....	....	2	....	..	1	..	..	..	..	..	..	..	..	..	..

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CAUSES OF DEATH IN THE TOWN OF OWEN SOUND, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	162	37	8	2	2	2	6	1	1	13	15	5	14	18	21	16	1	83	79	.....	117	42	3	78	83	1	11	12	14	19	15	15	12	9	17	18	6	14
I.—General Diseases.																																						
Group Total	44	2	3	..	2	2	2	1	..	6	7	3	7	7	2	..	..	20	24	....	33	10	1	19	24	1	2	1	4	8	5	5	3	2	4	5	..	5
1. Typhoid fever	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	..	..
6. Measles	11	2	3	..	2	2	2	..	..	....	....	..	....	..	..	..	..	8	3	....	11	....	....	11	....	....	....	....	2	4	4	1	....	....	....	....	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	1	....	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	..	..
28. Tuberculosis of the lungs	12	....	..	..	..	..	..	..	..	5	3	1	3	..	..	..	..	4	8	....	8	4	....	2	10	....	1	1	..	1	..	1	1	..	3	1	..	3
30. Tuberculous meningitis	1	....	..	..	..	..	..	1	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	..	..
40. Cancer and other malignant tumors of the stomach, liver	3	....	..	..	..	..	..	..	..	....	....	..	1	2	..	..	..	1	2	....	2	1	....	1	2	....	1	....	....	1	....	....	....	....	....	1	..	..
41. Cancer and other malignant tumors of the peritoneum, intestines, rectum	3	....	..	..	..	..	..	..	..	....	....	..	1	2	..	..	..	2	1	....	2	....	1	....	2	1	....	....	....	....	....	....	1	1	..	....	..	1
42. Cancer and other malignant tumors of the female genital organs	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	..	..
43. Cancer and other malignant tumors of the breast	2	....	..	..	..	..	..	..	..	....	....	..	....	1	1	..	..	....	2	....	....	2	....	1	1	....	....	....	....	1	..	1	....	....	....	....	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	2	....	..	..	..	..	..	..	..	....	....	..	1	1	..	..	..	....	2	....	2	....	....	....	2	....	....	....	....	....	....	1	1	....	....	....	..	..
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	..	..	....	..	1	....	..	1	..	..	....	2	....	1	1	....	....	2	....	....	....	....	....	....	....	....	1	1	....	..	..
50. Diabetes	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	..	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	....	..	....	1	..	..	..	....	1	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	..	1
54. Anæmia, chlorosis	2	....	..	..	..	..	..	..	..	....	1	..	1	..	..	..	..	1	1	....	1	1	....	....	2	....	....	....	....	....	1	..	1	....	....	....	..	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	....	....	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	8	3	..	..	..	..	1	..	..	....	1	..	....	1	2	..	..	3	5	....	7	1	....	4	4	....	..	..	..	3	..	..	1	1	1	1	..	1
61. Simple meningitis	2	1	..	..	..	..	1	..	..	....	....	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	....	....	....	....	....	....	1	....	..	1	..	..
64. Cerebral hæmorrhage, apoplexy	2	....	..	..	..	..	..	..	..	1	....	..	....	..	1	..	..	....	2	....	2	....	....	....	2	....	....	....	....	....	1	....	....	....	....	1	..	..	1
66. Paralysis without specified cause	2	....	..	..	..	..	..	..	..	....	....	..	....	1	1	..	..	1	1	....	1	1	....	....	2	....	....	....	....	1	....	....	....	....	1	....	..	..
71. Convulsions of infants	2	2	..	..	..	..	..	..	..	....	....	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	....	....	....	1	....	....	....	1	....	....	..	..
III.—Diseases of the Circulatory System.																																					
Group Total	22	....	..	..	..	..	..	..	..	....	3	1	4	3	8	3	..	8	14	....	12	10	....	3	19	....	2	2	..	..	1	3	4	..	2	2	2	4
78. Acute endocarditis	1	....	..	..	..	..	..	..	..	....	....	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	1	....	..	..	..
79. Organic diseases of the heart	19	....	..	..	..	..	..	..	..	....	3	1	3	3	7	2	..	7	12	....	11	8	....	3	16	....	2	2	..	..	1	3	3	..	1	2	2	3
81. Diseases of the arteries, atheroma, aneurysm, etc.	2	....	..	..	..	..	..	..	..	....	....	..	....	..	1	1	..	....	2	....	....	2	....	....	2	....	....	....	....	....	....	....	1	....	....	....	..	..	1

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OWEN SOUND—Concluded.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
154. XII.—Old Age.																																						
Group Total	16	....	..	..	..	..	..	..	..	....	..	..	....	..	6	10	..	10	6	....	4	12	....	1	15	....	2	2	2	1	..	..	2	..	2	3	..	2
XIII.—Affections Produced by External Causes.																																						
Group Total	9	....	..	..	..	..	1	..	..	1	3	..	....	2	..	1	1	6	3	....	5	3	1	3	6	....	..	1	..	..	..	1	..	1	4	..	1	1
158. Suicide by drowning	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
165. Other acute poisonings	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
167. Burns (conflagration excepted)	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
176. Injuries by animals	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	1	....	....	....	....	1	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
181. Electricity (lightning excepted)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
185. Fractures (cause not specified)	3	....	..	..	..	..	1	..	..	....	..	..	....	1	..	1	..	3	....	....	1	2	....	1	2	....	..	..	..	..	..	..	..	1	1	..	1	..
186. Other external violence	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
XIV.—Ill-Defined Diseases.																																						
Group Total	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	1	1	....	2	....	....	....	2	....	..	..	..	..	..	1	..	..	1	..	..
189. Cause of death not specified or ill-defined	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	1	1	....	2	....	....	....	2	....	..	..	..	..	..	1	..	..	1	..	..
Still-Births.																																						
Not included in totals	15	15	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	10	5	....	15	....	....	15	....	....	1	..	2	1	..	2	1	2	3	1	1	1

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1. 0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	131	31	3	4	3	.....	1	5	5	17	4	8	14	9	14	12	1	75	56	.....	108	21	2	74	56	1	14	12	6	12	10	16	9	7	12	14	8	11
I.—General Diseases.																																						
Group Total	38	6	2	2	1	..	..	2	..	8	1	4	6	4	1	..	1	18	20	....	31	6	1	24	14	....	7	3	2	4	1	3	2	2	5	3	4
1. Typhoid fever	3	....	..	..	..	..	..	..	..	3	..	..	....	..	..	..	..	2	1	....	3	....	....	2	1	....	..	..	..	..	..	..	..	1	2	..	..
2. Typhus fever	1	....	..	..	..	..	..	..	..	..	..	..	....	..	..	..	1	....	1	....	....	1	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
8. Whooping cough	6	5	1	..	..	..	..	..	..	..	..	..	....	..	..	..	..	1	5	....	6	....	....	6	....	....	..	..	..	..	..	..	..	..	1	3	2
9. Diphtheria and croup	3	....	..	2	..	..	..	1	..	..	..	..	....	..	..	..	..	1	2	....	3	....	....	3	....	....	1	..	1	..	1	..	..	..	..	..	..	..
10. Influenza	1	1	..	..	..	..	..	..	..	..	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
18. Erysipelas	1	....	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	6	....	..	..	..	..	..	..	..	2	1	1	1	1	..	..	..	4	2	....	4	1	1	4	2	....	1	1	..	1	..	1	..	..	1	1	..	..
31. Abdominal tuberculosis	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
33. White swelling	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..
34. Tuberculosis of other organs	1	....	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	1	....	..	..	..	..	..	..	..	....	..	..	..	1	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	2	....	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	....	2	....	1	1	....	2	....	....	1	..	..	1	..	..	..	..	..	..	..	..
43. Cancer and other malignant tumors of the breast	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
45. Cancer and other malignant tumors of other organs and of organs not specified	2	....	..	..	..	..	..	..	..	....	..	..	2	..	..	..	..	2	....	....	1	1	....	....	2	....	..	..	..	..	..	..	..	1	..	..	..	1
47. Acute articular rheumatism	1	....	..	..	1	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
48. Chronic rheumatism and gout	2	....	..	..	..	..	..	..	..	1	..	1	....	..	..	..	..	2	....	....	1	1	....	1	1	....	..	..	..	..	..	..	..	1	1	..	..	..
50. Diabetes	2	....	..	..	..	..	..	..	..	....	..	..	1	1	..	..	..	....	2	....	2	....	....	....	2	....	..	1	..	..	..	..	1	..	..	..	..	..
54. Anæmia, chlorosis	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	14	6	..	1	1	..	..	..	..	....	..	..	2	2	1	1	..	6	8	....	12	2	....	8	6	....	2	2	..	3	1	1	..	2	1	....	..	2
61. Simple meningitis	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	5	....	..	..	..	..	..	..	..	1	2	1	1	..	..	..	..	3	2	....	3	2	....	....	5	....	..	..	..	2	1	..	..	1	..	..	..	..
70. Convulsions (non-puerperal)	1	....	..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	1	..	..	..	..	..	..	..	..	..	..
71. Convulsions of infants	6	5	..	..	1	..	..	..	..	....	..	..	....	..	..	..	..	2	4	....	6	....	....	6	....	....	1	1	..	1	..	1	..	..	..	..	..	1

PEMBROKE—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	34	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
III.—Diseases of the Circulatory System.																																						
Group Total	10	....	..	..	..	..	..	..	..	1	..	..	2	..	4	3	..	7	3	....	5	5	....	3	7	....	1	1	1	1	2	1	..	..	2	1	..	..
79. Organic diseases of the heart	5	....	..	..	..	..	..	..	..	1	..	..	1	..	2	1	..	5	....	....	3	2	....	2	3	....	1	1	1	..	1	..	..	..	..	1	..	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	5	....	..	..	..	..	..	..	..	....	..	..	1	..	2	2	..	2	3	....	2	3	....	1	4	....	..	..	..	1	1	1	..	..	2	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	13	2	1	1	..	..	..	1	1	1	..	1	1	..	3	1	..	5	8	....	11	2	....	7	6	....	2	..	..	1	2	2	2	..	1	2	..	1
89. Acute bronchitis	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
90. Chronic bronchitis	4	....	..	..	..	..	..	..	1	....	..	..	....	..	3	..	..	2	2	....	3	1	....	1	3	....	1	..	..	..	..	..	1	..	1	1	..	..
92. Pneumonia	8	1	1	1	..	..	..	1	..	1	..	1	1	..	..	1	..	2	6	....	7	1	....	5	3	....	..	..	..	1	2	2	1	..	1	..	1
V.—Diseases of the Digestive System.																																						
Group Total	15	5	..	..	..	..	..	2	1	3	1	..	1	1	..	1	..	10	5	....	13	2	....	11	4	....	1	1	1	1	1	..	1	1	2	2	1	3
102. Ulcer of the stomach	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
103. Other diseases of the stomach (cancer excepted)	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
104. Diarrhœa and enteritis (under 2 years)	5	5	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	4	1	....	5	....	....	5	....	....	..	..	..	..	..	1	..	2	1	..	1
108. Appendicitis and typhlitis	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
109. Hernias, intestinal obstructions	2	....	..	..	..	..	..	..	..	....	..	..	....	1	..	1	..	2	....	....	1	1	....	....	2	....	..	..	..	..	..	..	..	..	..	..	..	2
115. Other diseases of the liver	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
117. Simple peritonitis (non-puerperal)	4	....	..	..	..	..	..	1	1	1	1	..	....	..	..	..	..	1	3	....	3	1	....	3	1	....	..	1	..	1	..	..	..	..	..	1	1	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	5	....	..	..	1	..	..	..	..	1	..	..	....	2	..	1	..	4	1	....	4	1	....	2	3	....	1	1	..	..	..	2	..	..	..	..	1	..
119. Acute nephritis	1	....	..	..	1	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
120. Bright's disease	3	....	..	..	..	..	..	..	..	1	..	..	....	2	..	..	..	2	1	....	2	1	....	1	2	....	..	..	..	..	..	2	..	..	..	..	1	..
122. Other diseases of the kidneys and adnexa	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
VII.—The Puerperal State.																																						
Group Total	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
137. Puerperal septicæmia	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
XI.—Diseases of Early Infancy.																																						
Group Total	12	12	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	7	5	....	12	....	....	12	....	....	..	2	..	1	3	1	1	1	..	..	2	1
151. Congenital debility, icterus, and sclerema	12	12	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	7	5	....	12	....	....	12	....	....	..	2	..	1	3	1	1	1	..	..	2	1

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CAUSES OF DEATH IN THE TOWN OF PORT HOPE, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1. 0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	62	9	1	.....	.....	.....	.....	.....	3	4	7	4	3	6	13	11	1	33	29	.....	37	25	.....	22	40	.....	6	3	7	7	8	2	5	5	2	9	4	4
I.—General Diseases.																																					
Group Total	10	....	..	..	..	..	..	..	2	2	2	2	....	2	..	..	..	6	4	....	8	2	....	4	6	....	..	1	2	..	..	..	3	1	1	..	2	..
1. Typhoid fever	4	....	..	..	..	..	..	..	2	....	2	..	....	..	..	..	..	4	....	....	4	....	....	1	3	....	..	..	2	..	..	..	..	..	1	..	1	..
28. Tuberculosis of the lungs	2	....	..	..	..	..	..	..	..	1	..	..	....	1	..	..	..	1	1	....	1	1	....	2	....	....	..	..	..	..	..	..	..	..	..	..	..	..
50. Diabetes	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	1	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
52. Addison's disease	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
55. Other general diseases	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
56. Alcoholism (acute or chronic)	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																					
Group Total	9	....	..	..	..	..	..	..	..	....	..	..	2	3	1	..	..	4	5	....	5	1	....	1	8	....	..	1	1	2	1	..	..	1	..	2	..	1
61. Simple meningitis	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	4	....	..	..	..	..	..	..	..	....	..	..	1	1	2	..	..	1	3	....	1	3	....	....	4	....	..	1	1	..	..	..	..	..	..	2	..	..
66. Paralysis without specified cause	3	....	..	..	..	..	..	..	..	....	..	..	1	..	2	..	..	1	2	....	3	....	....	....	3	....	..	..	..	1	1	..	..	..	..	..	..	1
74. Other diseases of the nervous system	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	....	1	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
III.—Diseases of the Circulatory System.																																					
Group Total	4	....	..	..	..	..	..	..	..	....	1	..	....	..	2	1	..	1	3	....	3	1	....	....	4	....	..	..	1	1	1	..	..	..	..	..	..	1
79. Organic diseases of the heart	3	....	..	..	..	..	..	..	..	....	1	..	....	..	2	..	..	....	3	....	2	1	....	....	3	....	..	..	1	1	1	..	..	..	..	..	..	..
85. Hæmorrhage; other diseases of the circulatory system	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
IV.—Diseases of the Respiratory System.																																					
Group Total	5	....	..	..	..	..	..	..	..	....	2	..	....	..	1	1	1	1	4	....	3	2	....	2	3	....	1	..	..	..	1	1	..	..	..	1	1	..
91. Broncho-pneumonia	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	....	1	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
92. Pneumonia	3	....	..	..	..	..	..	..	..	....	2	..	....	..	1	..	..	1	2	....	2	1	....	1	2	....	..	..	..	..	1	..	..	..	..	1	1	..
93. Pleurisy	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	..	1	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..

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CAUSES OF DEATH IN THE TOWN OF SARNIA, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
		0-1																																			
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	206	34	6	3	2	2	3	3	5	11	17	14	23	29	28	24	2	110	96	.....	144	55	7	84	117	5	23	10	16	11	16	13	21	30	23	13	16	14
I.—GENERAL DISEASES.																																					
Group Total	50	2	2	..	..	..	2	..	3	6	10	5	5	7	5	3	..	27	23	....	37	13	....	21	29	....	4	2	10	4	4	3	3	6	3	1	5	5
1. Typhoid fever	14	....	1	..	..	..	2	..	3	3	4	1	....	..	..	..	..	6	8	....	13	1	....	8	6	....	2	..	4	1	1	..	2	1	..	..	..	3
6. Measles	2	1	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	1	1	..	..	..	..	..	..	..	..
8. Whooping cough	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
14. Dysentery	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	....	1	....	....	1	....	....	1	....	..	..	..	..	..	..	..	..	1	..	..	..
18. Erysipelas	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
28. Tuberculosis of the lungs	8	....	..	..	..	..	..	..	..	2	4	..	2	..	..	..	..	5	3	....	7	1	....	5	3	....	1	..	2	..	1	1	..	..	1	1	..	1
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
40. Cancer and other malignant tumors of the stomach, liver	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	....	1	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	5	....	..	..	..	..	..	..	..	....	..	1	1	2	1	..	..	1	4	....	3	2	....	....	5	....	1	..	..	..	1	..	..	1	..	..	2	..
48. Chronic rheumatism and gout	3	....	..	..	..	..	..	..	..	....	..	1	....	1	1	..	..	2	1	....	1	2	....	1	2	....	..	..	1	..	..	..	1	1	..	..	..	..
50. Diabetes	2	....	..	..	..	..	..	..	..	....	..	..	....	1	..	1	..	2	....	....	2	....	....	1	1	....	..	..	..	..	1	..	..	..	..	..	..	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
53. Leucæmia	2	....	..	..	..	..	..	..	..	....	..	1	....	..	1	..	..	....	2	....	1	1	....	1	1	....	..	..	..	..	1	..	..	1	..	..	..	..
54. Anæmia, chlorosis	4	....	..	..	..	..	..	..	..	1	..	..	....	2	1	..	..	2	2	....	3	1	....	....	4	....	..	1	..	1	..	..	..	..	..	..	2	..
56. Alcoholism (acute or chronic)	2	....	..	..	..	..	..	..	..	....	1	..	....	1	..	..	..	2	....	....	2	....	....	1	1	....	..	..	..	..	..	1	..	1	..	..	..	..
II.—DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSE.																																					
Group Total	22	3	..	..	2	..	..	1	1	1	1	1	3	5	2	2	..	13	9	....	17	4	1	9	12	1	5	..	..	2	1	3	5	2	2	1	1	..
61. Simple meningitis	6	2	..	..	2	..	..	..	..	1	1	..	....	..	..	..	..	3	3	....	6	....	....	5	1	....	1	..	..	1	..	2	1	..	1	..	..	..
64. Cerebral hæmorrhage, apoplexy	9	....	..	..	..	..	..	1	..	....	..	..	2	3	2	1	..	7	2	....	6	3	....	1	8	....	2	..	..	1	..	1	3	1	..	1	..	..
66. Paralysis without specified cause	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	....	1	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..
67. General paralysis of the insane	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	....	1	....	....	1	....	....	1	....	....	..	..	..	..	..	1	..	..	..	..	..
69. Epilepsy	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	..
70. Convulsions (non-puerperal)	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	1	..	..	..	..	..	..	..
71. Convulsions of infants	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	1	..
74. Other diseases of the nervous system	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	....	1	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
76. Diseases of the ears	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
X.—Malformations.																																							
Group Total	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..
150. Congenital malformations (still-births not included)	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	..	..	..	..	1	..	..	..
XI.—Diseases of Early Infancy.																																						
Group Total	20	20	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	11	9	..	20	..	..	20	..	..	2	2	3	..	2	1	..	4	3	1	2	..
151. Congenital debility, icterus, and sclerema	19	19	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	9	..	19	..	..	19	..	..	2	1	3	..	2	1	..	4	3	1	2	..
152. Other diseases peculiar to early infancy	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..
154. XII.—Old Age.																																						
Group Total	20	..	..	..	..	..	..	..	..	..	..	..	..	..	8	12	..	9	11	..	6	14	..	1	19	..	3	1	..	..	1	2	3	2	3	2	1	2
XIII.—Affections Produced by External Causes.																																						
Group Total	14	..	..	1	..	1	..	..	..	2	1	2	2	2	2	1	..	11	3	..	6	7	1	5	8	1	4	1	..	..	1	1	1	2	1	2	1	..
165. Other acute poisonings	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	..	..	..	..
167. Burns (conflagration excepted)	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	1	..	..	..	..
168. Absorption of deleterious gases (conflagration excepted)	1	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	1	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..
169. Accidental drowning	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	1	..	..	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	3	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	3	..	..	..	3	..	1	2	..	..	..	..	..	..	..	1	..	1	1	..	..
178. Excessive cold	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	..	1	..	..	1	1	..	..	..	..	..	..	..	..	..	..	..
181. Electricity (lightning excepted)	2	..	..	..	..	..	..	..	..	..	1	..	1	..	..	..	..	2	..	..	2	..	..	2	..	..	..	..	..	..	..	..	..	1	..	1	..	..
185. Fractures (cause not specified)	4	..	..	..	..	..	..	..	..	..	..	1	..	2	..	1	..	2	2	..	1	3	..	1	3	..	2	1	..	..	..	..	..	..	..	1	..
XIV.—Ill-Defined Diseases.																																						
Group Total	3	..	..	..	..	..	..	..	..	..	..	..	2	1	..	..	..	1	2	..	2	1	..	..	3	..	..	1	..	..	1	..	..	..	..	..	1	..
189. Cause of death not specified or ill-defined	3	..	..	..	..	..	..	..	..	..	..	..	2	1	..	..	..	1	2	..	2	1	..	..	3	..	..	1	..	..	1	..	..	..	..	..	1	..
Still-Births.																																						
Not included in totals	15	15	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	10	5	..	15	..	..	15	..	..	1	..	1	1	1	..	1	2	1	5	1	1

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.																Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	226	50		14	4	1	4	8	3	9	31	20	14	13	13	7	22		137	88	1	133	37	56	122	78	26	24	12	16	21	20	19	29	15	29	16	8	17
I.—General Diseases.																																							
Group Total	69	26		2	4	1	4	4	2	5	14	6	3	5	6	3	..	8	14	25	....	45	12	12	35	27	7	5	1	4	10	5	5	14	2	11	6	3	3
1. Typhoid fever	10	....	..	..	..	..	..	..	..	1	5	..	1	....	1	..	..	2	10	....	....	5	5	....	7	3	....	3	..	..	..	..	..	1	..	..	..	..	1
6. Measles	7	....	1	2	..	1	1	1	..	..	....	..	..	..	..	..	..	1	5	2	....	7	....	....	7	....	....	..	..	..	1	..	2	4	..	..	..	..	..
9. Diphtheria and croup	9	....	..	1	..	3	3	1	..	..	1	..	..	..	..	..	..	..	4	5	....	9	....	....	9	....	....	..	..	..	2	1	..	2	..	2	..	..	..
14. Dysentery	1	1	..	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	1	..	..
18. Erysipelas	1	....	..	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	1	..	..	..	..	..	..	..	..	..	..
20. Purulent infection and septicæmia	1	1	..	..	..	..	..	..	..	..	....	..	..	..	..	..	..	..	..	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
28. Tuberculosis of the lungs	19	....	1	..	..	..	..	..	..	4	5	2	1	2	..	..	..	1	13	6	....	11	2	6	7	7	5	1	..	..	2	2	2	1	3	..	1	..	..
30. Tuberculous meningitis	1	....	..	..	1	..	..	..	..	..	....	..	..	..	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	1	..	..	..
31. Abdominal tuberculosis	2	....	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	....	2	....	....	2	....	....	2	....	....	..	..	..	..	..	1	..	..	..	..	..
39. Cancer and other malignant tumors of the buccal cavity	1	....	..	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	1	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	2	....	..	..	..	..	..	..	..	..	....	..	..	..	2	..	..	..	1	1	....	1	1	....	....	1	1	....	..	..	1	1	..	..	..	..	..	..	..
42. Cancer and other malignant tumors of the female genital organs	3	....	..	..	..	..	..	..	..	..	....	1	..	....	1	1	..	..	....	3	....	2	....	1	....	3	....	1	..	..	..	..	..	1	..	..	1	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	4	....	..	..	..	..	..	..	..	..	....	..	..	....	2	1	..	1	4	....	....	1	....	3	....	4	....	..	..	1	2	..	..	1	..	..	..	..	..
47. Acute articular rheumatism	1	....	..	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
48. Chronic rheumatism and gout	1	....	..	..	..	..	..	..	..	..	....	..	..	....	..	1	..	..	....	1	....	....	....	1	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
51. Exophthalmic goitre	1	....	..	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..	..
54. Anæmia, chlorosis	1	....	..	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
55. Other general diseases	1	....	..	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
56. Alcoholism (acute or chronic)	3	....	..	..	..	..	..	..	..	..	....	1	..	2	..	..	..	..	3	....	....	1	1	1	....	2	1	..	..	..	1	1	..	..	1	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																							
Group Total	21	10		1	..	..	..	..	..	1	1	..	1	3	2	1	1	..	13	8	....	16	2	3	13	8	....	2	2	1	1	1	2	2	1	5	2	..	2
61. Simple meningitis	3	1	1	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	2	1	....	3	....	....	3	....	....	1	1	..	..	..	..	..	1	..	..	..	..
64. Cerebral hæmorrhage, apoplexy	8	....	..	..	..	..	..	..	..	..	....	..	1	3	2	1	1	..	7	1	....	3	2	3	....	8	....	..	1	..	..	..	..	..	..	3	..	..	1
66. Paralysis without specified cause	1	....	..	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	1	..	..	..	..	..
71. Convulsions of infants	8	8	..	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	6	....	8	....	....	8	....	....	1	..	..	1	1	1	1	..	2	..	..	1
76. Diseases of the ears	1	1	..	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	1	..	..	..	..	..	..	..	..

SAULT STE. MARIE—Continued.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
III.—Diseases of the Circulatory System.																																						
Group Total	11	..	..	..	..	..	..	..	1	2	1	1	..	3	3	..	..	8	3	..	3	3	5	3	7	1	2	1	..	..	1	..	1	1	3	1	..	1
78. Acute endocarditis	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	..	1	..	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..
79. Organic diseases of the heart	7	..	..	..	..	..	..	..	..	2	1	1	..	2	1	..	..	6	1	..	2	2	3	2	5	..	1	1	..	..	1	..	1	1	1	1	..	..
82. Embolism and thrombosis	3	..	..	..	..	..	..	..	1	..	..	..	..	1	1	..	..	1	2	..	1	..	2	1	1	1	..	..	..	..	..	..	..	..	2	..	..	1
IV.—Diseases of the Respiratory System.																																						
Group Total	22	8	6	..	..	..	1	..	..	..	2	..	2	1	2	..	..	13	9	..	16	2	4	16	5	1	3	2	2	3	2	3	3	..	1	1	..	2
87. Diseases of the larynx	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	1	..	1	..	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..
89. Acute bronchitis	4	4	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	2	..	4	..	..	4	..	..	..	..	..	..	1	1	2	..	..	..	..	..
91. Broncho-pneumonia	3	..	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	..	3	..	..	3	..	..	1	..	..	..	..	1	..	..	..	..	..	1
92. Pneumonia	13	4	3	..	..	..	..	..	..	..	2	..	2	..	2	..	..	8	5	..	8	2	3	8	4	1	1	2	2	2	1	1	1	..	1	1	..	1
93. Pleurisy	1	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	..	..	..	1	..	1	..	1	..	..	..	..	..	..	..	..	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	26	8	4	..	..	..	1	..	1	5	3	1	1	..	..	..	2	9	17	..	17	4	5	19	3	2	3	..	3	..	1	1	2	4	5	2	2	3
103. Other diseases of the stomach (cancer excepted)	3	2	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	1	..	3	..	..	3	..	..	..	..	..	..	1	..	..	2	..	..	..	..
104. Diarrhœa and enteritis (under 2 years)	9	6	3	..	..	..	..	..	..	..	..	..	..	..	..	..	..	2	7	..	9	..	..	9	..	..	..	..	..	2	..	1	..	2	2	1	..	1
108. Appendicitis and typhlitis	6	..	..	..	..	..	..	..	1	5	..	..	..	..	..	..	..	3	3	..	4	1	1	5	1	..	3	..	1	..	..	..	..	..	..	1	1
109. Hernias, intestinal obstructions	4	..	..	..	..	..	1	..	..	..	1	1	1	..	..	..	..	1	3	..	1	2	1	2	2	..	..	..	..	..	..	..	..	2	..	..	1	1
117. Simple peritonitis (non-puerperal)	4	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	2	1	3	..	..	1	3	..	2	2	..	..	..	..	..	..	2	..	1	1	..	..
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	6	..	..	..	..	..	1	..	..	..	..	2	..	1	1	..	1	4	2	..	2	1	3	2	2	2	..	1	..	..	2	1	..	..	..	1	1
120. Bright's disease	3	..	..	..	..	..	..	..	..	..	..	2	..	1	..	..	..	2	1	..	..	1	2	1	1	1	..	..	..	..	1	1	..	..	..	..	1	..
122. Other diseases of the kidneys and adnexa	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	1	..	..	..	..	1	..	..	1	..	..	..	..	1	..	..	..	..	..	..	..
123. Calculi of the urinary passages	1	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	1	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	1
127. Non-venereal diseases of the male genital organs	1	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	1	..	..	..	..	..	..	..	..	..	..
VII.—The Puerperal State.																																						
Group Total	4	..	..	..	..	..	..	..	..	..	3	1	..	..	..	..	..	..	4	..	2	1	1	..	4	..	..	..	..	1	..	1	1	1	..	..	..	..
134. Accidents of pregnancy	2	..	..	..	..	..	..	..	..	..	2	..	..	..	..	..	..	..	2	..	1	1	..	..	2	..	..	..	..	..	..	..	1	1	..	..	..	..
136. Other accidents of labor	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	1	..	1	..	..	..	..	..	1	..	..	..	..	..	..	..
137. Pueperal septicæmia	1	..	..	..	..	..	..	..	..	..	1	..	..	..	..	..	..	..	1	..	1	..	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..
X.—Malformations.																																						
Group Total	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..
150. Congenital malformations (still-births not included)	1	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1	..	..	1	..	..	1	..	..	..	..	..	..	..	1	..	..	..	..	..	..

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CAUSES OF DEATH IN THE TOWN OF SMITH'S FALLS, 1912.

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		Under 1.	0-1	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2		3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Grand Total	120	26		3	2	.....	2	4	2	4	13	9	12	15	10	11	6	1	66	54	.....	88	24	8	62	53	5	11	12	9	8	9	7	9	10	14	6	13	12
I.—General Diseases.																																						
Group Total	31	3		1	1	..	1	..	1	1	4	3	3	7	3	3	..	..	16	17	....	24	3	4	14	16	1	3	4	4	2	2	3	2	1	4	1	5	..
1. Typhoid fever	3	....		1	..	..	..	..	..	1	1	..	..	....	..	..	..	..	3	....	....	2	1	....	3	....	....	..	..	1	..	1	..	..	..	1	..	..	..
6. Measles	1	....		..	..	..	1	..	..	..	....	..	..	....	..	..	..	..	....	1	....	1	....	....	1	....	....	..	..	..	..	..	..	..	..	..	..	..	1
8. Whooping cough	2	2		..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	1	1	..	..	..	..	..	..	..	..	..
9. Diphtheria and croup	2	....		..	1	..	..	..	1	..	....	..	..	....	..	..	..	..	2	....	....	2	....	....	2	....	....	..	1	..	..	..	..	..	..	..	1	..	..
28. Tuberculosis of the lungs	10	1		..	..	..	..	..	..	..	3	2	2	..	..	..	..	..	5	5	....	8	....	2	4	6	....	2	1	1	..	..	1	1	1	1	1	..
31. Abdominal tuberculosis	1	....		..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
40. Cancer and other malignant tumors of the stomach, liver	3	....		..	..	..	..	..	..	..	....	..	..	1	..	2	..	..	1	2	....	2	1	....	....	3	....	..	..	..	2	..	..	..	1	..	..	..
41. Cancer and other malignant tumors of the peritonæum, intestines, rectum	1	....		..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	1	..	..	..	..	..
45. Cancer and other malignant tumors of other organs and of organs not specified	5	....		..	..	..	..	..	..	..	....	..	1	1	3	..	..	..	1	4	....	3	1	1	1	3	1	..	..	1	..	1	..	1	..	..	2	..
53. Leucæmia	1	....		..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	1	..
54. Anæmia, chlorosis	2	....		..	..	..	..	..	..	..	....	..	..	1	..	1	..	..	....	2	....	1	....	1	....	2	....	..	1	..	..	..	1	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	9	1		..	1	..	..	..	..	..	....	..	2	2	2	1	..	..	4	5	....	9	....	....	3	5	1	..	..	1	1	..	..	1	1	2	..	1	2
64. Cerebral hæmorrhage, apoplexy	5	....		..	..	..	..	..	..	..	....	..	1	1	2	1	..	..	2	3	....	5	....	....	1	4	....	..	..	1	1	..	..	1	..	..	..	1	1
66. Paralysis without specified cause	2	....		..	..	..	..	..	..	..	....	..	1	1	..	..	..	..	1	1	....	2	....	....	....	1	1	..	..	..	..	..	..	..	..	1	..	..	1
71. Convulsions of infants	2	1		..	1	..	..	..	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	1	1	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	17	....		..	..	..	..	1	..	..	1	2	1	4	2	4	2	..	9	8	....	9	5	3	5	12	....	2	3	1	3	1	1	..	1	1	..	2	2
77. Pericarditis	1	....		..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	..	..	..	..	..	1	..	..	..	..
79. Organic diseases of the heart	9	....		..	..	..	..	..	..	..	1	2	..	2	1	3	..	..	4	5	....	5	4	....	4	5	....	1	2	..	1	1	1	..	..	..	..	1	2
80. Angina pectoris	1	....		..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	....	1	....	1	....	..	..	..	..	..	..	..	..	..	..	..	..
81. Diseases of the arteries, atheroma, aneurysm, etc.	6	....		..	..	..	..	..	..	..	....	..	..	2	1	1	2	..	3	3	....	3	1	2	....	6	....	1	1	1	1	..	..	..	1	..	..	..	..

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Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
154. XII.—Old Age.																																						
Group Total	7	....	..	..	..	..	..	..	..	....	..	..	....	..	3	4	..	2	5	....	3	4	....	....	6	1	1	1	..	..	..	..	1	..	1	..	1	2
XIII.—Affections Produced by External Causes.																																						
Group Total	14	....	1	..	..	1	1	..	2	4	1	2	1	1	..	..	..	9	5	....	8	6	....	7	6	1	..	..	..	..	1	..	1	3	1	2	3	3
165. Other acute poisonings	3	....	1	..	..	..	..	..	..	....	..	1	....	1	..	..	..	2	1	....	2	1	....	1	2	....	..	..	..	..	..	..	2	1	..	..	..
167. Burns (conflagration excepted)	3	....	..	..	..	1	..	..	..	1	..	1	....	..	..	..	..	....	3	....	1	2	....	1	2	....	..	..	..	..	..	..	1	..	1	1	..
169. Accidental drowning	4	....	..	..	..	..	1	..	2	1	..	..	....	..	..	..	..	3	1	....	2	2	....	4	....	....	..	..	..	..	..	..	1	..	..	1	2
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	..	..	..	..	..	..	..	1
	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	..	..	..	..	1	..	..	..	..	..	..	..
185. Fractures (cause not specified)	2	....	..	..	..	..	..	..	..	2	..	..	....	..	..	..	..	2	....	....	1	1	....	1	....	1	..	..	..	..	..	..	..	..	1	1	..	..
186. Other external violence																																						
XIV.—Ill-Defined Diseases.																																						
Group Total	3	....	..	..	..	..	..	..	..	....	1	1	....	..	..	..	1	2	1	....	2	1	....	3	....	....	..	..	1	..	..	..	1	1	..	..	..	..
188. Sudden death	1	....	..	..	..	..	..	..	..	....	1	..	....	..	..	..	..	....	1	....	....	1	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
189. Cause of death not specified or ill-defined	2	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	1	2	....	....	2	....	....	2	....	....	..	..	..	..	..	..	1	1	..	..	..	..
Still-Births.																																						
Not included in totals	8	8	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	4	4	....	8	....	....	8	....	....	1	1	1	..	2	..	1	..	..	..	1	1

CAUSES OF DEATH IN THE TOWN OF WELLAND, 1912.*

OFFICIAL ENGLISH TRANSLATION. DISEASES AND CAUSES OF DEATH.	Total.	Ages.															Sex.			Nativity.			Social Con.			Months.											
		0-1 Under 1.	1.	2.	3.	4.	5-9.	10-14.	15-19.	20-29.	30-39.	40-49.	50-59.	60-69.	70-79.	80 and over.	Not stated.	Male.	Female.	Not stated.	Canada.	Foreign.	Not stated.	Single.	Married.	Not stated.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
Group Total	41	13	1	.....	.....	.....	1	.....	2	5	2	4	2	2	6	3	.....	24	16	1	30	11	.....	18	18	5	12	5	16	4	.....	.....	.....	.....	.....	.....	.....	4
I.—General Diseases.																																						
Group Total	8	1	1	..	..	..	..	..	..	2	1	1	....	..	2	..	..	5	3	....	4	4	....	3	4	1	2	..	4	1	..	..	..	..	..	..	..	1
1. Typhoid fever	2	....	..	..	..	..	..	..	..	1	1	..	....	..	..	..	..	2	....	....	....	2	....	1	....	1	1	..	..	..	..	..	..	..	..	..	..	1
6. Whooping cough	2	1	1	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	..	..	..	..	..	..	..	..	..	..	..	..
28. Tuberculosis of the lungs	3	....	..	..	..	..	..	..	..	1	..	..	....	..	2	..	..	2	1	....	1	2	....	....	3	....	1	..	..	1	..	..	..	..	..	..	..	..
54. Anæmia, chlorosis	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	....	1	....	....	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
II.—Diseases of the Nervous System and of the Organs of Special Sense.																																						
Group Total	4	2	..	..	..	..	..	..	..	....	..	..	....	1	..	1	..	4	....	....	3	1	....	2	2	....	2	..	..	2	..	..	..	..	..	..	..	..
61. Simple meningitis	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	1	....	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
62. Locomotor ataxia	1	....	..	..	..	..	..	..	..	....	..	..	....	1	..	..	..	1	....	....	....	1	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
71. Convulsions of infants	2	2	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	....	....	....	2	....	2	....	....	1	..	..	1	..	..	..	..	..	..	..	..
III.—Diseases of the Circulatory System.																																						
Group Total	3	....	..	..	..	..	..	..	..	....	..	2	....	1	..	..	..	2	1	....	3	....	....	....	3	....	..	..	1	1	..	..	..	..	..	..	..	1
79. Organic diseases of the heart	3	....	..	..	..	..	..	..	..	....	..	2	....	1	..	..	..	2	1	....	3	....	....	....	3	....	..	..	1	1	..	..	..	..	..	..	..	..
IV.—Diseases of the Respiratory System.																																						
Group Total	7	2	..	..	..	..	1	..	1	....	..	..	1	..	1	1	..	4	3	....	6	1	....	4	1	2	2	2	1	1	..	..	..	..	..	..	..	1
87. Diseases of the larynx	1	....	..	..	..	..	1	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
90. Chronic bronchitis	1	....	..	..	..	..	..	..	..	....	..	..	....	..	..	1	..	....	1	....	1	....	....	....	1	....	..	..	..	1	..	..	..	..	..	..	..	..
91. Broncho-pneumonia	2	2	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	1	....	2	....	....	2	....	....	1	..	..	..	..	..	..	..	..	..	..	1
92. Pneumonia	3	....	..	..	..	..	..	..	1	....	..	..	1	..	1	..	..	2	1	....	2	1	....	1	....	2	..	2	..	1	..	..	..	..	..	..	..	..
V.—Diseases of the Digestive System.																																						
Group Total	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..
99. Diseases of the mouth and adnexa	1	1	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	1	....	....	1	....	....	1	....	....	..	..	1	..	..	..	..	..	..	..	..	..

* Returns for first quarter only.

Number of Column.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38
VI.—Non-Venereal Diseases of the Genito-Urinary System and Adnexa.																																						
Group Total	2	....	..	..	..	..	..	..	..	....	1	..	....	..	1	..	..	1	1	....	2	....	....	....	1	1	1	1	..	..	..	..	..	..	..	..	..	..
120. Bright's disease	2	....	..	..	..	..	..	..	..	....	1	..	....	..	1	..	..	1	1	....	2	....	....	....	1	1	1	1	..	..	..	..	..	..	..	..	..	..
VII.—The Puerperal State.																																						
Group Total	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
138. Puerperal albuminuria and convulsions	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
VIII.—Diseases of the Skin and of the Cellular Tissue.																																						
Group Total	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
142. Gangrene	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	....	1	....	....	1	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
XI.—Diseases of Early Infancy.																																						
Group Total	7	7	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	4	1	7	....	....	7	....	....	2	1	2	1	..	..	..	..	..	..	..	1
151. Congenital debility, icterus, and sclerema	7	7	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	2	4	1	7	....	....	7	....	....	2	1	2	1	..	..	..	..	..	..	..	1
154. XII.—Old Age.																																						
Group Total	3	....	..	..	..	..	..	..	..	....	..	..	....	..	2	1	..	2	1	....	1	2	....	....	3	....	..	1	2	..	..	..	..	..	..	..	..	..
XIII.—Affections Produced by External Causes.																																						
Group Total	4	....	..	..	..	..	..	..	1	1	..	1	1	..	..	..	..	3	1	....	2	2	....	1	2	1	2	..	2	..	..	..	..	..	..	..	..	..
157. Suicide by hanging or strangulation	1	....	..	..	..	..	..	..	..	....	..	..	1	..	..	..	..	....	1	....	1	....	....	....	1	....	..	..	1	..	..	..	..	..	..	..	..	..
167. Burns (conflagration excepted)	1	....	..	..	..	..	..	..	..	1	..	..	....	..	..	..	..	1	....	....	1	....	....	....	1	....	1	..	..	..	..	..	..	..	..	..	..	..
175. Traumatism by other crushing (vehicles, railroad, landslides, etc.)	1	....	..	..	..	..	..	..	..	....	..	1	....	..	..	..	..	1	....	....	....	1	....	....	....	1	..	..	1	..	..	..	..	..	..	..	..	..
185. Fractures (cause not specified)	1	....	..	..	..	..	..	..	1	....	..	..	....	..	..	..	..	1	....	....	....	1	....	1	....	....	1	..	..	..	..	..	..	..	..	..	..	..
Still-Births.																																						
Not included in totals	4	4	..	..	..	..	..	..	..	....	..	..	....	..	..	..	..	4	....	....	4	....	....	4	....	....	..	..	2	..	..	..	..	..	..	..	..	2

Thirty-First Annual Report

OF THE

Provincial Board of Health

OF

Ontario, Canada

FOR THE YEAR

1912

PRINTED BY ORDER OF

THE LEGISLATIVE ASSEMBLY OF ONTARIO

TORONTO:

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1913.

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TORONTO

To His Honour Sir John Morison Gibson, K.C., LL.D., K.C.B., etc.,

Lieutenant-Governor of the Province of Ontario.

May it Please Your Honour,—I herewith beg to present for your consideration the 31st Annual Report of the Provincial Board of Health for the year 1912.

Respectfully submitted,

W. J. Hanna,

Provincial Secretary.

To The Honourable W. J. Hanna, K.C., M.P.P.,

Provincial Secretary of Ontario.

Sir,—I have the honour to submit for your approval the Thirty-first Annual Report of the Provincial Board of Health, made in conformity with and under the provisions of the Public Health Act, for the year 1912.

I have the honour to be,

Sir,

Your obedient servant,

John W. S. McCullough,

Chief Officer of Health.

PROVINCIAL BOARD OF HEALTH OF ONTARIO

1912.

ADAM H. WRIGHT, M.D., *Chairman* ..... Toronto
HENRY R. CASGRAIN, M.D. ..... Windsor
THOMAS E. KAISER, M.D. ..... Oshawa
WILLIAM H. HOWEY, M.D. ..... Sudbury
A. A. WEAGANT, M.D. ..... Ottawa
JAMES ROBERTS, M.D., M.O.H. ..... Hamilton

Secretary and Chief Officer of Health,

JOHN W. S. MCCULLOUGH, M.D.

Provincial Inspector,

R. W. BELL, M.D.

Provincial Bacteriologist,

J. A. AMYOT, M.D.

Branch Laboratory--Kingston,

W. T. CONNELL, M.D.

Provincial Chemist,

H. M. LANCASTER, B.A.Sc.

Provincial Sanitary Engineer,

F. A. DALLYN, B.A.Sc., C.E.

District Officers of Health,

District.
No. 1.—DAVID B. BENTLEY, M.D., Sarnia.
No. 2.—THOMAS J. MCNALLY, M.D., Guelph.
No. 3.—DANIEL A. MCCLENAHAN, M.D., Hamilton.
No. 4.—GEORGE CLINTON, M.D., Belleville.
No. 5.—PAUL J. MOLONEY, M.D., Cornwall.
No. 6.—W. EGERTON GEORGE, M.D., North Bay.
No. 7.—ROBERT E. WODEHOUSE, M.D., Fort William.

Sanitary Inspector,

GEORGE E. YOUNG.

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Resumé of the Transactions of the Board

For the Year Ending December 31st, 1912

BY THE SECRETARY

This is the Thirty-first Annual Report of the Provincial Board of Health for Ontario, being for the year ending the Thirty-first day of December, 1912.

There were four regular meetings of the Board.

The plans and specifications of water works and sewerage systems and sewage disposal plants were passed by the Board during the year as follows:

Sewers.—Almonte (extensions), Arnprior (extensions), Barrie (extensions), Berlin (extensions), Bowmanville (sewerage), Chatham (extensions), Fort William (extensions), Galt (extensions), London (Hyman Tannery sewage disposal), North Toronto (extensions), Oshawa (extensions), Peterboro (extensions), Petrolia (sewerage system), Preston (extensions), St. Catharines (extensions), Sarnia (extensions), Toronto (extensions), Waterloo (extensions), Windsor (extensions).

Water Works.—Alliston (system), Berlin (extension), Bourget (system), Brampton (system), Brighton (system), Burk's Falls (water filtration), Clinton (system), Collingwood (intake pipe), Cornwall (extension), Dunnville (water by-law), Fergus (water by-law), Haileybury (water filtration), Hanover (extension), Leamington (extension), Oakville (extension), Ottawa (filtration), Parkhill (system), Pembroke (extension), Port Colborne (extension), Port Stanley (system), Ridgetown (system), St. Catharines (extension), Sarnia (system and filtration), Vankleek Hill (system), Weston (extension), Wingham (extension).

During the early portion of the year the Secretary, in company with the City Engineer of Ottawa, Mr. N. J. Ker, visited and examined the water purification plants at Washington, D.C., Philadelphia, Pa., Columbus and Cincinnati, O., Louisville, Ky., and New Orleans, La. Every facility was afforded us by the officials at each of these places of observing the process in use and the results obtained, and our thanks are due and hereby tendered to the courteous gentlemen in charge of the various plants.

In the month of January, 1912, an investigation was held by me into the causes of the outbreak of typhoid fever in Sarnia. A large number of witnesses were examined, and the evidence of these witnesses and the conclusions arrived at are embodied in a special report published by the Board.

In the early summer an outbreak of typhoid fever in the City of Ottawa reached large proportions. The causes were similar to those of the epidemic referred to in the last report of the Board. Public opinion in Ottawa became so aroused that an investigation was held into its causes by the County Judge. His report contained some severe strictures upon various city officials, including the Medical Officer of Health and City Engineer, both of whom resigned in consequence. The results of these two investigations quite sustain the position of the Board in attributing the causes in both cases to polluted water, and already have had the effect of steps being taken to procure adequate and satisfactory supplies in both instances.

The complete revision of the Public Health Act and of the Vaccination Act by the Legislature of 1912 marks a new era in sanitary work in the Province. Under the former Act provision was made for ten District Officers of Health. Of this number, seven have been appointed. They were given a course of instruction by the Board and the University of Toronto, and began their duties near the close of the year; so that, including the Provincial Medical Inspector and Provincial Sanitary Inspector, upon whom all the work of sanitary supervision of a Province comprising 407,262 square miles (an area three and one-half times the size of Great Britain) formerly devolved we have now nine officers for this work. The number is not at all adequate, but it is a good beginning, and the Board feels confident, judging from the character of the men appointed that the results they will accomplish will afford good grounds for adding to their number before many years elapse.

The Districts with their respective officers are as follows:

District No. 1.—Comprising Counties of Elgin, Essex, Lambton, Middlesex, Kent and Oxford: Dr. D. B. Bentley, Sarnia.

Dictrict No. 2.—Comprising Counties of Bruce, Dufferin, Grey, Huron, Perth, Wellington, and Waterloo: Dr. T. J. McNally, Guelph.

District No. 3.—Comprising Counties of Brant, Haldimand, Halton, Lincoln, Norfolk, Peel, Welland, Wentworth, and York: Dr. D. A. McClenahan, Hamilton.

District. No. 4.—Comprising Counties of Ontario, Durham, Northumberland, Prince Edward, Hastings, Peterborough, Victoria, Haliburton, Muskoka, and Simcoe: Dr. George Clinton, Belleville.

District No. 5.—Comprising Counties of Lennox and Addington, Frontenac, Leeds, Grenville, Stormont, Dundas, Glengarry, Prescott, Russell, Carleton, Lanark and Renfrew: Dr. P. J. Moloney, Cornwall.

District No. 6.—Comprising the districts of Parry Sound, Nipissing, Temiskaming, and Sudbury: Dr. W. E. George, North Bay.

District No. 7.—Comprising districts of Algoma, Manitoulin, Rainy River, Kenora, and Thunder Bay: Dr. R. E. Wodehouse, Fort William.

Another satisfactory feature of the recent legislation is the permanency given to the office of the local Medical Officer of Health. It had become the rule, especially in the smaller towns, villages and townships, to change the Medical Officer of Health annually. This fact, together with the additional one that this officer usually received but a trifling remuneration for his services, had the effect of making the Medical Officer of Health a mere figurehead. He had no incentive to improve his sanitary knowledge or utilize that which he possessed. Now the law requires that he shall be paid a reasonable salary and he cannot be dismissed except for cause and with the consent of the Provincial Board. In addition, the Medical Officer of Health becomes a member of the local Board of Health and its executive officer. He is required to attend an annual conference of the Health Officers of the Province, for which the local municipality pays his expenses. The members of the Local Boards of Health have been reduced in numbers. Places of 4,000 and upwards have five members, and those under 4,000 population, three members. The Chief Officer of Health is the executive officer of the Provincial Board, and between meetings of the Board, of which four are required to be held each year, he possesses all the powers of the Board.

The District Officers give their whole time to the work of public health.

The new legislation places the control of isolation hospitals under the Local Boards of Health, and provision is made for arbitration similar to that under the Sanatorium Act where disputes arise respecting the establishment of such an institution outside the municipality.

The Act makes provision for the medical care of indigents, requiring that this duty shall not, as in the past, be saddled upon the medical practitioners of the community without remuneration.

Perhaps the most important features of the revised Health Act are the provisions respecting public water supplies and disposal of sewage. In the case of water supplies, the source of supply and proposed works must be approved by the Provincial Board. In the case of sewers or sewage disposal works the same approval is necessary, and, in case the Board signifies that works of either kind are necessary, no vote of the people is needed to raise money for either of these purposes. Further, if the Board reports that in the interest of public health a water works system, water purification plant, a sewerage system or a sewage disposal plant is necessary, the municipality is obliged to forthwith establish them. This will probably prevent the former laxity of municipalities, the waste of money incurred in the establishment of incomplete works, and in taking a vote of the people upon questions which they obviously could not intelligently pass upon.

The provisions of the Act in respect to the care of employees in lumber, mining and construction camps in unorganized districts are included in the Act.

The statutory by-law (Section 114), known as Schedule B, has been revised and may be amended or altered by a municipality to meet any special requirements, with the consent of the Provincial Board.

In conformity with the Act, new Regulations have been passed by the Board and confirmed by Order-in-Council in respect to various matters such as communicable diseases, burials and disinterment, meat inspection, etc., all of which are included in this report. An important addition are the regulations respecting tuberculosis, requiring for the first time that this disease be made notifiable.

The Vaccination Act was revised to provide that where smallpox exists in a municipality, or where its proximity leads the Provincial or Local Board to anticipate danger of an outbreak, the Council must order compulsory vaccination (Section 12); and under similar circumstances the Medical Officer of Health, with the approval of the Local Board, may require certificates of vaccination from all pupils or students attending schools.

As an indication of public opinion in respect to these Acts, the following from the London "Lancet" of June 1st, may be quoted:

THE PUBLIC HEALTH ACT.

"The first of these is a codified and amended Public Health Act, which contains many provisions that are found in English legislation, as well as others which break new ground. The 'communicable diseases' of the Act, for example, all of which are required to be notified to the Medical Officer of Health or local Board of Health, and to be controlled by regulations of the central authority, include tuberculosis (apparently in all forms), mumps, measles, anthrax, rabies, poliomyelitis and cerebro-spinal fever, as well as those which are specified in our Infectious Diseases (Notification) Acts. In addition to powers given to municipalities to make hospital and sanatorium provision for communicable diseases, the Act empowers the erection of emergency hospitals, which may be provided by taking any suitable land or any unoccupied building without prior agreement with the

owner, subject to a subsequent adjustment of compensation. One municipality is given the right to recover from another all cost of dealing with an epidemic which has been introduced into the former district through neglect of the medical officer of health, local board, or corporation of the latter. 'Nuisances,' again have a wide definition, and include such conditions as overcrowded houses, furnaces which do not consume their own smoke, and any premises (whether inhabited or not) which are in a dangerous condition. The medical treatment of persons in a state of poverty is included in the duties of the local public health authority, and contracts for such treatment, providing 'fair and reasonable remuneration for services rendered,' have to be made by municipalities with the medical officer of health or with local medical practitioners. Other parts of the Act deal with local water supplies and sewerage systems, and if properly administered should be of the greatest value for the prevention of water-borne infection. Public abattoirs are authorized, though no powers seems to be conferred on local authorities to require them to be used or to abolish private slaughtering establishments.

"It may be concluded from the Act that the Canadian Legislature does not share the traditional English objection to giving administrative authority to the expert. The local board of health established in every city is to appoint a medical officer of health as its executive officer; he is given security of tenure and is himself a member of the local board. A meeting of all medical officers of health in the province is to be annually convened by the central authority, the Provincial Board of Health. This body appears to combine functions which are exercised in this country both by the Local Government Board and County Councils. At least four out of the six members are legally qualified medical practitioners, and the chief officer of health, who is ex-officio a member of the board, acts as its secretary and is its principal executive officer. Ten district officers of health act under the Board's instructions in supervisory and administrative work throughout the province. This central health officer has been given wide powers to make regulations and to act in place of local authorities, and it would seem to hold in its hand the whole sanitary future of the great area under its charge.".

Vaccination Act.

"The Vaccination Act of the Province of Ontario, also passed this year, requires infants to be vaccinated within three months, and a fine is imposed for non-compliance in the absence of sufficient reason, such as ill health or insusceptibility. A municipality may by proclamation require vaccination or revaccination of all residents who have not been vaccinated within seven years, and when smallpox is prevalent or is threatened the medical officer of health may exclude from any school or college a pupil who does not produce a certificate of successful vaccination, revaccination, or insusceptibility. The Provincial Government arranges for vaccination through hospitals and dispensaries which receive grants from public funds. Such institutions are required to arrange for the attendance of a public vaccinator on stated days, and to undertake the supply of vaccine lymph to medical practitioners who require it. Domiciliary vaccination in Ontario is thus vaccination by private practitioners with lymph supplied at the public expense. Every municipality, however, is to appoint a public vaccinator to vaccinate at the public cost all poor persons who come to him for the purpose, and all other persons at their own expense. In the matter of vaccination the Ontario legislature has done well to depart widely from the English model. The new Act does not provide special means of exemp-

tion to the 'conscientious objector,' or invite each individual to avoid taking his share in the action which the State desires for the common good."

The Public Health Exhibit and motion pictures travelled over a great extent of the Province during the winter months, being shown as far east as Kingston and west as far as Kenora. These features were continued at the Canadian National Exhibition, and from the numbers in attendance seem to have created a great deal of interest. Large quantities of literature, including not only information respecting communicable diseases but also "The Care of the Baby," "Sewage Disposal for Residences," "Flies," and "Mosquitoes" were distributed during the year.

The first Annual Conference of Health Officers held in accordance with the Act took place in September in conjunction with the meeting of the Canadian Public Health Association. There was a large attendance of the Medical Officers of Health from all over the province and much useful and practical information was gained.

During the year the Board made arrangements to distribute to each Medical Officer of Health a set of outfits for the collection of sputum, diphtheria exudate and blood specimens. These are kept on hand by the Medical Officer of Health and supplied on demand to the various local physicians.

Work at the Experimental Laboratory continued throughout the year and a preliminary report by the Engineer is included herein.

Our general laboratory has done a heavy year's work, not only in the examination of the various specimens sent by physicians, but also in examination of public and private water supplies and in the preventive treatment of rabies cases. Detailed reports of all this work will be found in this volume.

The officers of the Board have had several conferences with the members of the International Joint Commission respecting the examination of the International Waterways, with the object of determining the character and extent of the pollution of these waters, and, with a view to facilitating this important work, the Board, through the writer, offered to supply and pay the men for the technical work, providing the Joint Commission would pay the expenses. This was agreed to, and at the time of writing the work is in progress.

The reports of the Provincial Medical Inspector and of the Branch Laboratory at Kingston are included herewith.

CASES AND DEATHS FROM COMMUNICABLE DISEASES REPORTED WEEKLY BY LOCAL BOARDS OF HEALTH FOR THE YEAR 1912.

Month.	Smallpox.		Scarlet Fever		Diphtheria.		Measles.		Whooping Cough.		Typhoid.		Tuberculosis		Infantile Paralysis.		Cerebro-spinal Meningitis.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January	38	.....	285	10	248	38	89	2	110	5	41	12	117	55	1	.....	5	4
February	73	.....	193	15	182	23	111	12	44	7	36	15	92	58	2	1	3	3
March	106	2	298	16	238	22	300	4	183	12	87	10	154	84	.....	.....	2	2
April	103	.....	238	16	156	15	579	3	110	9	34	14	117	78	2	2	12	12
May	52	1	297	8	169	28	588	15	94	18	35	13	100	58	.....	.....	4	4
June	16	.....	207	4	160	10	287	7	193	17	39	9	123	55	.....	.....	5	5
July	23	.....	230	5	123	9	106	3	42	9	550	15	92	56	.....	.....	7	7
August	31	.....	140	10	193	27	64	3	348	30	1,022	94	179	119	15	8	13	13
September	4	.....	97	6	118	14	80	3	109	16	299	31	111	60	12	6	4	4
October	5	.....	144	1	200	22	126	1	34	4	173	36	101	67	13	1	2	2
November	33	.....	165	12	237	13	91	1	44	2	142	27	148	80	3	.....	1	1
December	51	.....	252	8	316	17	213	4	103	13	111	29	191	90	1	1	1	1
	535	3	2,646	111	2,340	238	2,634	58	1,414	142	2,569	305	1,525	*860	49	19	59	58

* Only 36 per cent. of these deaths are reported weekly by Local Boards of Health. See correct number in Tuberculosis table by ages.

DEATHS IN ONTARIO FROM TUBERCULOSIS BY AGES FOR 10 YEARS, 1902-1911.

Year.	Total.	Under 5 years.					5-9	10-14	15-19	20-29	30-39	40-49	50-59	60-69	70-79	80 and over	Not given.	Total deaths from all causes.
		0-1	1	2	3	4												
1902	2,694	102	35	28	11	6	45	75	236	742	562	366	226	161	64	12	23	27,864
1903	2,723	140	66	31	16	14	55	78	255	773	508	323	209	167	51	13	24	29,664
1904	2,877	7	52	26	9	17	52	78	278	826	587	374	257	175	104	13	22	31,290
1905	2,667	.....	55	31	21	18	47	85	266	813	509	341	212	144	79	16	30	31,371
1906	2,911	251	72	23	14	14	38	74	234	724	604	367	228	169	66	19	14	32,782
1907	2,530	74	41	27	20	15	44	62	206	745	499	311	227	173	64	9	13	33,502
1908	2,511	68	46	20	13	13	43	67	216	764	479	315	217	136	70	14	30	32,714
1909	2,380	47	27	25	9	15	54	54	179	687	487	290	222	163	66	15	40	32,628
1910	2,291	38	35	19	15	6	36	55	184	652	463	293	222	160	71	18	24	33,539
1911	2,353	63	30	15	10	18	48	64	181	618	476	325	218	156	85	12	34	34,341
	25,937	790	459	245	138	136	462	692	2,235	7,344	5,174	3,305	2,238	1,604	720	141	254	319,695

Reports of Medical Inspector R. W. Bell, M.D.

REPORT *RE* PROPOSED PARK POND AT BARRIE.

To the Secretary of the Provincial Board of Health.

SIR,—As instructed by you, I visited Barrie on the 19th inst. to report upon a proposed artificial pond in a park. With Dr. Little, M.O.H., Mr. Vickers, Chairman of Park Commission, and Messrs. McLaren and Hamley, I examined the location and source of water supply for it.

The pond is in a small natural hollow in the south-eastern corner of the park, and only 40 or 50 feet across with springy ground around it, nice clear water issuing from one spring. It has already a concrete dam on its lower side and is to be stoned up on the other sides. Into it, however, runs an open drain from the east side of the park, and this continues eastward several blocks along Sophia Street, receiving all the spring freshet and surface drainage after rain storms, also drainage from many private properties adjoining, and without doubt a certain amount of house drainage, if not from closets. This certainly has been the case in the past if not at the time of my visit. The pond at the present time is filled with this dirty drainage and, if continued, must constitute a nuisance and should not be permitted.

If the drain is diverted to a town sewer or elsewhere and the pond fed from the springs or civic water supply, it would be sanitary and add to the beauty of the park. This I advised, and suggested having the town engineer make the necessary plans, and the suggestion seemingly met with the approval of the local authorities who were with me.

R. W. BELL,
Provincial Inspector of Health.

July 23rd, 1912.

REPORT *RE* POLLUTION OF WATER AT LONGFORD.

To the Secretary Provincial Board of Health.

SIR,—I visited Longford on the 19th inst *re* pollution of Lake St. John from the Standard Chemical Co. Works. Here immense quantities of hardwood are used for the manufacture of wood alcohol, charcoal, acetone, etc., the buildings being situated on the shore of the lake. I found a half-dozen rivulets from one to two feet wide running down to the lake. These were apparently only hot water from the condensers, excepting one which was colored a greenish yellow, and on reaching the lake an oily scum spread over the water. This I was informed by Mr. Windrum, manager of the works, was of a creosote character and was the only waste passing into the water, and only as the result of the flushing out of the condensers by the hose once a day. The water of the lake is but little used.

In the immediate neighborhood drinking water is obtained from wells, but lake water is used for all other purposes. Under the circumstances the pollution should be stopped, and there should be no difficulty in providing for it otherwise.

R. W. Bell,
Provincial Inspector of Health.

July 22nd, 1912.

To the Secretary of the Provincial Board of Health, Ontario.

Sir,—I have the honour to report in respect to the premises at 814 Shaw Street, in the City of Toronto, which I visited on the 25th inst. in company with Inspector Scholes of the City.

I found preparations being made for building upon this site, the cellar being excavated to depth of 5 or 6 feet, and for foundations to depth of 15 to 20 feet. The whole site is upon a dump from which there was at the time of my visit a most disgusting odor.

The site is in my opinion totally unfit from a sanitary point of view for building purposes. I do not consider that any form of concrete wall or floor will make it satisfactory for such purpose.

All of which is respectfully submitted.

R. W. Bell,
Provincial Inspector of Health.

Toronto, July 31st, 1912.

REPORT *RE* DRAIN AT KINMOUNT.

To the Secretary of the Provincial Board of Health.

Sir,—As instructed by you, I visited Kinmount, in Township of Somerville, on Monday, 22nd inst., *re* unsanitary conditions caused by a drain. I went there with Reeve Morrison, Clerk Suddaby, Mr. Hopkins, of the Board of Health, and Mr. Train, looked over the situation and found as follows: The Burnt River runs through the village in a southerly direction, and about 100 yards west of it is the line of the G. T. R. Between these lies the business part of the village on low flat filled-in ground. During spring freshets much of this section is liable to be flooded, the trouble being added to by a mill dam about 100 yards down stream holding the water back in a small pond adjoining the main street. A permit I am told was given by the Dominion authorities for the erection of this dam to the height of about 7 feet 6 inches in or about 1886. It has been added to since until now about 10 or 12 feet, holding the level of the water so high that proper drainage to the stream is almost impossible. The drain complained of, which empties into the pond, was satisfactory at one time when the dam was lower and the level of water in mill pond consequently lower. It originates in a small marsh about 100 x 50 feet, west of the railway track under which it passes, thence alongside the railway em-

bankment and under a shed into Mr. Hopkins' yard, being there covered for a driveway, thence under the street to the pond. The sections of drain under the railway track and under the street were at one time deep enough, but the railway put in new ones, not apparently low enough to drain off the water, and as a result the flow is obstructed by much filling of sand, etc., also by much rubbish in the open section, a board wall of a shed, and by flags, stocks, and roots in the marsh, all these causing stagnant water and an unsanitary condition in the yards and cellars in the immediate vicinity.

The remedy: The drain must be cleared of all obstructions, including the lowering of the culverts under the railway track and street to a proper grade, and kept clear; the marsh should be filled in, leaving a drain across it for the flow from a spring which is the source of the water supply.

All this can be readily done and will go a long way to relieve the trouble, as Mr. George Smith, C.E., who investigated the location last November, reports a fall of 3 feet 7 inches from the upper end of the marsh to the pond, a distance of about 100 yards.

In order, however, to entirely remedy the trouble, it may be necessary to lower the dam. I would also suggest the carrying of the outlet of the drain below the dam, either along the west side of the pond, or by a pipe under its water and through the dam.

I may add that Kinmount is a police village, and there is evidently considerable reluctance on the part of the Township Board of Health to spend municipal funds to relieve what is looked on as a purely local trouble.

All of which is respectfully submitted.

R. W. Bell,
Provincial Inspector of Health.

Toronto, April 24th, 1912.

REPORT *RE* RENDERING WORKS, GUELPH.

To the Secretary, Provincial Board of Health.

Sir,—As instructed by you, I visited Guelph on the 4th inst., *re* a Rendering Plant situated in the city close to the junction station, and which it is proposed to remove to the neighborhood of the sewage disposal works, outside the city in Guelph Township, because of complaints of residents nearby within one hundred yards, who say that the odors therefrom are a nuisance.

The Board of Health of the Township object to such removal into their municipality.

In company with Mayor Thorp and Dr. Howitt, M.O.H., of the city, Mr. Laidlaw, and Dr. Roberts, M.O.H., of the township, and several other officials, I looked over both localities. I was assured by several city officials that there should be no objections on the ground of the works being a nuisance, as the odors did not last more than half an hour after the opening of the tank. This was hardly consistent with the reasons given for the desire to move.

However, I may say at the time of my visit there were in the tank carcasses of a horse, dogs, and other animals, and the tank was ready for opening. Prior to opening, there was a most disagreeable odor about the premises, and after opening

I certainly had no desire to stay for a half hour to learn personally if all would disappear at that time, as only on the windward side could one escape from the most disgusting and sickening effluvia.

At the sewage disposal location the relief would only be to the present sufferers, and the nuisance would be transferred to others who, although rather more distant —say 300 or 400 yards—would, without doubt, if the wind was in their direction, get the full benefit of this horrible stench.

The expressed intention of the owner is to considerably enlarge the plant if moved. While it is without doubt a convenience to the community in getting rid of dead animals, and a source of profit to the owner, I have no hesitation in pronouncing the plant, as now conducted, a nuisance, and upholding the township authorities in their objection to its removal to the proposed location in their municipality.

At a later conference with all parties, I suggested each sending a representative to visit similar plants in two or three other cities to find out conditions there, and possibly learn of some feasible means of lessening the nuisance and thereby enabling them to come to some mutual agreement regarding it.

R. W. Bell,

Provincial Inspector of Health.

Toronto, June 6th, 1912.

REPORT *RE* RENDERING WORKS AT GUELPH.

To the Secretary, Provincial Board of Health.

Sir,—As instructed by you, I visited the Rendering Plant at Guelph on 30th September ult., to find out if it is proving a nuisance. I was accompanied by Major Merewether, Sanitary Inspector, and while there Dr. Howitt, M.O.H., also visited the premises. It may be recalled that I inspected this same plant on July 4th last, when it was owned by Mr. Rolland, since deceased. It was then contemplated to have it moved outside the city, but so far no move has been made.

The carcass of a horse was in the tank at the time of my recent visit. The sickening odor was quite perceptible fully 200 yards before I reached the premises, and in its neighborhood on the lee side was unbearable. The surrounding yard, which had been in a foul condition, was much improved and comparatively clean.

I can now, however, only reiterate all said in my previous report and pronounce the plant a nuisance to most of the residents for a considerable area surrounding it. The owner of an abattoir adjoining this plant is anxious to purchase, enlarge, and continue it, but this I do not think should be permitted in its present situation.

R. W. Bell,

Provincial Inspector of Health.

October 3rd, 1912.

REPORT *RE* PIGGERY AT TARA.

To the Secretary of the Provincial Board of Health, Ontario.

Sir,—Complaints having been made about a piggery at Tara being a nuisance, I, as directed by you, visited that place on the 20th inst. to investigate the correctness of the complaint. On my arrival at the railway station there late the previous evening my nostrils at once made me aware of some disgusting nuisance in the near neighborhood. The following morning, with Dr. Armstrong, M.O.H. of the Township of Arran, I visited the location and found a piggery about 150 yards from the railway station, situated in the township above named. About 40 yards from it and within the village limits of Tara is a Butter Factory which turns out about a ton of butter per day.

Between the factory and piggery runs a small stream, the Sable River, and across it is pumped the buttermilk which is fed to the hogs. The hog pen is a frame building 100 feet long, divided into 20 compartments, in each of which were from 12 to 14 hogs, in all about 260. As no bedding is used for the hogs, it may be realized that the place is far from clean, although at the time of my visit I found a man busy sweeping the pens, the contents going into troughs running alongside and thence into cement tanks from which it is pumped once or twice weekly and spread on adjoining fields. The odor must be horrible for those towards whom the wind carries it. I do not see how it is possible to prevent the butter being tainted when the surrounding atmosphere is saturated with the disgusting stench. The factory and piggery are owned by the same persons, and they have been notified by the township Board of Health months ago to abate the nuisance, which I have no hesitation in pronouncing as such.

R. W. Bell,
Provincial Inspector of Health.

June 22nd, 1912.

REPORT *RE* UNSANITARY CONDITIONS, ST. MARY'S.

To the Secretary, Provincial Board of Health, Ontario.

Sir,—A special request having come from the M.O.H. of St. Mary's for a Provincial Officer to investigate several unsanitary nuisances existing in that town, I undertook the task with him on Wednesday, the 3rd inst. We visited the premises of twenty-three business people, viz., hotels, groceries, confectioneries, bakeries, fruit dealers, butcher shops, etc.

The principal complaints were in regard to the disposal of garbage, decaying fruits, and vegetables, and I must say that the complaints were quite justified in most cases. There is evidently great carelessness and indifference as to the protection of fruits, bread, pastry, and confectionery, etc., from flies breeding in manure and garbage, and from street dust. But little screening of foods was seen, and the conditions under which some baking was done were far from sanitary.

The hotel yards were as a rule clean and satisfactory, excepting the garbage barrels were not covered. In all cases the offending parties were advised with, and received our instructions in good part, except two who were inclined to resent any interference and objected to orders for improvement, but an intimation that refusal or neglect to at once abate the nuisances would bring about a prosecution had the desired effect.

The lack of a sewerage system materially adds to the unsanitary conditions, especially during the warm weather, as the abominable pit closets, unprotected from flies, were much in evidence.

At a meeting with the local Board of Health I strongly urged them to take up the question of a sewerage system, but in the meantime to have the pit closets abolished and the bucket system with dry earth system established and attended to by a civic scavenger, who also would gather all the garbage at short intervals.

I also advised the licensing of eating-houses, confectioneries, etc., so as to give a better control, and also by-laws as to the exposure of foodstuffs.

All was considered favorably by the Board, and I hope to learn of a satisfactory result.

R. W. Bell,
Provincial Inspector of Health.

July 6th, 1912.

REPORT *RE* NUISANCE AT WHITBY.

To the Secretary, Provincial Board of Health, Ontario.

Sir,—On Thursday, 4th inst., I visited Whitby for the purpose of looking over some drains reported as being so offensive as to constitute a nuisance. Mr. Thompson, Member of the Board of Health, and Dr. Warren, M.O.H., accompanied me over the whole situation, and we were joined by Mayor Downey and Mr. Willis for a portion of it. I find there are two creeks running through the town to the harbour, and many drains lead into these, there being no regular sewerage system. These drains are mostly open, but here and there covered and frequently choked up from excessive growth of weeds and rubblish thrown into them.

Originally intended for surface and cellar drainage, unfortunately house connections have been permitted to be made until they have become an abomination and nuisance to those living along their route, as well as a danger to many wells still in use.

It is also quite possible for the Civic Water Supply to be contaminated, as the outlet of the creeks is not far distant from the intake.

The remedy is a proper sewer system, which I am informed the town cannot financially stand at present. Meanwhile, however, I advised the abolition of cesspools and the cutting off of all house connections illegally made with these drains.

R. W. Bell,
Provincial Inspector of Health.

Toronto, July 8th, 1912.

REPORT *RE* NUISANCES AND POLLUTION OF STREAM FROM CEMENT WORKS AT ORANGEVILLE.

To the Secretary, Provincial Board of Health, Ontario.

Sir,—As instructed by you, I visited Orangeville on 5th inst., to enquire into nuisances and pollution of a stream. With Dr. Carson, M.O.H., I went over the whole situation. There is a good water but no sewerage system in the town. Cesspools are common, and also drains mostly open, but occasionally indifferently

covered. Many private house connections have been made with these, although only intended for surface or cellar drainage. As only flushed by spring freshets or heavy rains, they give off most offensive odors. One of these, which is a small badly polluted rivulet, forms a shallow pond a few yards wide, held back by a dam constructed for the use of a mill not now operated and increases the nuisance by its offensiveness. The town wants the owner to drain the pond, but he refuses to do so, as he is not responsible for its pollution, and this is quite true, as it is the result of the unwise permission of the town allowing domestic sewage connections. I fear that drainage of the pond would make matters worse unless all sewage pollution is stopped. The remedy is to cut off all house connections, as they have been made without legal permission, abolish all cesspools as well, and adopt a system of dry earth closets until such time as a proper sewer system is established.

Re Cement Works.—Here I found a large flow of hot water with considerable oil in it being carried down through part open and part tile drain a few hundred yards to a small stream, which a few yards further on empties into the River Credit. In this small stream the oil was seen freely spread over its surface and is reported injurious to the fish further down. From information received from the Superintendent of the works and calculations made we concluded at least two gallons of oil per day pass into the stream, a very small portion occasionally being skimmed from a catch basin. I understand the Cement Company has had trouble with a farmer through whose lands the drain runs, and only after legal action was taken placed tile in a section of the drain to carry the pollution past the damage point.

Certainly some other method of disposing of the waste oil should be adopted, and contamination of the stream stopped.

R. W. Bell,
Provincial Inspector of Health.

Toronto, July 8th, 1912.

REPORT *RE* SEWER EXTENSION IN GALT.

To the Secretary, Provincial Board of Health, Ontario.

Sir,—On the 17th inst. I visited the town of Galt *re* extension of sewer, and with Mayor Scott, Dr. Vardon, M.O.H., and Mr. Edward Puce, Town Engineer, and others drove over the proposed route.

The proposed extension is for surface drainage only of the eastern part of Ward 2. Domestic sewage is already provided for, but the sewer is not large enough for both.

The proposition is to lay 3,400 feet of 30-inch tile across the Mackenzie farm outside the town to Moffatt's Creek, a small stream which empties into the Grand River about two-thirds of a mile further down. Part of the farm spoken of is already divided into lots and will eventually be included in the town. The creek is fed from springs and never goes dry. The banks are low down in some places and flooded during spring freshets. Mostly pasture land through which it flows. I visited it at various points from the proposed entrance of sewer to its mouth. A concrete dam a short distance above its mouth forms a pond, from which the ice supply of the town is taken. This is dry in summer, but flooded and run off again in fall to clean it out.

The only objections I heard to the proposition were from a couple of farmers who feared greater flooding of their pastures, but as they through carelessness caused almost complete damming of the stream at various points through their farms, these were not considered—in fact they do not come under our purview from a sanitary point of view. As the ice is taken in midwinter from the pond flooded from the spring water and when no surface drainage, I see no objection to its use.

As to the pollution of the creek or river beyond at spring freshet or after heavy rains, I do not think there will be any danger, as the engineer has provided for a settling and filtering tank at sewer outlet, if considered necessary.

I would advise that it be required, and, with this proviso, recommend that the proposition be approved.

R. W. Bell,

Provincial Inspector of Health.

June 18th, 1912.

Addendum.

To-day, July 9th, 1912, I again visited Galt and had a conference with the Boards of Health of the Town, and Township of N. Dumfries. The parties through whose farms the Moffatt Creek runs admitted that none of them use it for domestic purposes, but only for watering stock. Their grievance was that they had not been consulted by the town authorities prior to my previous visit, and fears were expressed by Dr. A. Thompson, M.O.H. for the township, that the 30-inch tile and the tank were not large enough. However, the Engineer states in the specifications that he has in them made ample provision for the greatest possible flow. At the close of our conference all parties appeared to be fairly well satisfied to accept the approval of our Board, but a small committee from each municipality was appointed to consider and arrange any further objections on the part of the township.

R. W. Bell,

Provincial Inspector of Health.

REPORT *RE* NUISANCE AT STRATFORD.

To the Secretary of the Provincial Board of Health, Ontario.

Sir,—On the 10th inst. I visited Stratford to enquire into a nuisance said to exist caused by the Gas Works. With Dr. Robertson, M.O.H., I looked over the situation. I found a considerable quantity of fluid which emits a bad odor passing through a series of open underground tanks in rear of the works, thence into a small creek on the street side, known as the Erie St. Creek. A few yards below and beside the creek is a clothing factory, the employees in which complain of the odor. The creek here crosses the street and running a short distance in rear of three or four private houses, joins a similar creek which is no better than an open sewer, and together they empty into the river Avon within the city limits. On the banks of the creeks, as well as in them, there was much filth deposited, all tending to render the condition very unsanitary.

Formerly the waste from the Gas Works was forbidden entrance to the city sewers, because of the tar it contained, but the manager now states there is no tar in it, and only ammonia as a pollution, and he intends applying for permission to connect with them and so remove the nuisance from the street.

Considerable nuisance exists independent of the Gas Works requiring abatement in this immediate neighbourhood. The whole question of the pollution of the river from city sewers, etc., is one requiring to be dealt with at an early date.

R. W. Bell,

July 11th, 1912. *Provincial Inspector of Health.*

REPORT *RE* GRIMSBY BEACH.

To the Secretary of the Provincial Board of Health, Ontario.

Sir,—This summer resort was visited by me on Monday, 15th inst., owing to complaints regarding its unsanitary condition. Several years ago I visited the park, and, bad as were some of the conditions then, they are infinitely worse now. The park is now owned and managed by Mr. H. H. Wylie. There is a resident population of probably 1,500 during the summer months, very much congested owing to the proximity of the cottages, about 300. Large picnic parties are there almost daily numbering up in the hundreds, and sometimes thousands, and it is to these the manager caters, as all manner of amusements are provided, together with foods and refreshments, etc. The cottage owners have long leases of their lots, many of them so small the house covers the whole lot, and no provision for family closet accommodation. Several community closets have been erected of the pit variety containing from eight or ten to twenty seats, and these are used in common by the resident cottage owners and picnic parties, the accommodation being quite inadequate and most unsanitary owing to the carelessness of the transients. The cottage owners are under the impression that the park manager is required to provide them with these conveniences, but he denies that responsibility, and says they use them under sufferance and they are only provided for the use of picnics. He admits being responsible for an adequate water supply, street cleaning, and lighting. He also pretends to provide for daily garbage removal on payment of a monthly fee, but there is evidently just cause for complaint regarding this matter, as only a one-armed man is employed to look after nearly 300 cottages.

The two hotels situated in the park are provided with flush closets leading to cesspools, and I fear one of these is connected to a drain which carries kitchen slop to the sand beach close to the wharf where stinking sewage was seen, as also two vile closets. These I ordered removed within 24 hours and the drain diverted from the lake within a week, the water for all but drinking purposes being pumped from alongside the wharf about 100 feet distant.

About fifty cottage owners have provided themselves with patent sanitary closets, which to some extent relieves the situation, and I advised Mr. Wylie to post notices forbidding the remaining residents the use of the community closets, thereby compelling them to provide their own conveniences. He was also ordered to at once put the present closets, which are now a horrible nuisance, in as thoroughly a sanitary condition as possible and keep them so for the remainder of this season, after which they must be abolished entirely, and only such provision made for the future as shall be approved by the Provincial Board of Health.

Mr. A. O. Bowslaugh, Sanitary Inspector of the Township of Grimsby, in which the park is situated, went over the whole situation with me, and I left the carrying out of my instructions in his hands, but I fear more pressure from your Board will be required before this delightful resort is put in a satisfactory sanitary condition.

R. W. Bell,
Provincial Inspector of Health.

Toronto, July 16th, 1912.

REPORT *RE* TANNERIES AT BARRIE AND ORILLIA.

To the Secretary, Provincial Board of Health, Ontario.

Sir,—On Friday, 19th inst., I visited the premises of the Barrie Tanning Co., situated at the west end of Kempenfeldt Bay. All fluid waste is discharged into the bay a few yards distant through an open drain. This consists of the washings of raw hides, lime solution and leather washings of a dark red color, polluting the bay water to a considerable extent, and doubtless creating a nuisance which should be abated. The owners are anxious for sewer connection if brought within reach of the tannery, but that would not lessen the pollution of the bay water, only transfer it to another point, as all the town sewers empty into it; a further condition the abatement of which has already been ordered. Other provision than the pollution of the bay, however, should be at once adopted by the tannery.

On Saturday the 20th inst., with Dr. McLean, M.O.H., Orillia, I visited the tannery of Millar and Son in that town. A large business is done here in tanning harness leather. The buildings are situated on what was at one time very swampy ground, low and flat, but now fairly well drained. Into an open drain leading off to the east is discharged all the liquid waste, a dark reddish colored fluid from the washings of the leather, but containing considerable quantity of lime, admittedly over two bushels per day. The washings off the dirty fresh hides, together with the salt from them, also pass into this drain, all ultimately reaching Lake Couchiching about 500 yards distant and polluting its waters to a considerable extent. The matter is all the worse now, as the civic water supply from their wells is not sufficient and an extra supply is being pumped from this lake. As the pumping station is not far distant, it is quite possible for some of this pollution to reach the intake. Other provision for the disposal of this waste should be at once made.

R. W. Bell,
Provincial Inspector of Health.

July 23rd, 1912.

REPORT *RE* NUISANCE FROM DRAINS IN MERLIN, COUNTY OF KENT.

To the Secretary, Provincial Board of Health, Ontario.

Sir,—I visited, as instructed by you, the village of Merlin, *re* complaints of a nuisance from drains therein. Merlin is an incorporated village in the County of Kent, with a population of about 500. The main street running north and south is the line between the Townships of Raleigh and East Tilbury, and another

street crossing at right angles is known as the Middle Road. Along both sides of these streets are ditches mostly open, about 4 feet deep and 6 to 8 feet wide, in which there is much stagnant water and sewage, the flow being obstructed by rushes and weeds to such an extent as to almost obscure the bottom. At various crossings, however, the filth was seen to the depth of a foot or two, and on being stirred up gave off a most disgusting odor. Several houses have modern conveniences connected with these drains, all of which have been made without permission. The flow in the drains is northward and about 1½ miles to the "Hickey Drain," thence eastward several miles to the River Thames. Cattle almost daily without a herder wander through the ditches stirring up the foul mess. A new canning factory, just starting operations, has a connection to one of the drains and if permitted will add greatly to the pollution.

I met the Medical Officers of Health of both townships, also several members of the local Boards of Health, and advised that all closet connections be ordered cut off at once and if not obeyed the delinquents to be prosecuted, also that the by-law *re* cattle on highways without an attendant be enforced. The drains are also to be thoroughly cleared of weeds and other obstructions and a free flow given to the water from rains and freshets. If this is done the nuisance will be readily abated.

All of which is respectfully submitted.

R. W. Bell,
Provincial Inspector of Health.

July 31st, 1912.

REPORT *RE* IVY LEA SUMMER RESORT.

To the Secretary, Provincial Board of Health, Ontario.

Sir,—Complaint having been made regarding sanitary conditions and pollution of the waters at this summer resort, I, as instructed by you, investigated the matter on 6th inst. This place is situated on the bank of the St. Lawrence River, in the County of Leeds, and consists of several boarding houses and over twenty cottages. I visited twenty-five of them. Several cottages are combined with their boathouses directly over the water. Most of them derive their water supply from the river. All of the boarding houses with accommodation for from 30 to 50 persons have flush closets, and with two exceptions also several cottages empty into the river, the remaining cottages having pit closets, the soakage from which may in some cases reach the water. The sewer outlets are all in close proximity to the intakes within a few feet of them. I am informed there are a dozen or more cottages on adjacent islands with modern conveniences and depositing all their sewage into the water.

At all places visited I warned the persons seen that all pollution of the water must cease, but as in most cases the party seen was not the responsible head, it will be advisable to write officially to each one with specific orders. The boarding houses may require a little time to make the necessary changes, but most of the cottage owners can do so at once wtth but little inconvenience.

A list is hereby appended.

R. W. Bell,
Provincial Inspector of Health.

August 9th, 1912.

REPORT *RE* POLLUTION OF WATER AT KINGSVILLE.

To the Secretary, Provincial Board of Health, Ontario.

SIR,—As instructed by you, I visited Kingsville yesterday, October 9th, and looked over the sanitary conditions of the town, particularly with reference to the pollution of the water supply. Dr. Jenner, M.O.H., informed me that there had recently been several cases of typhoid fever in town, probably caused by infected water supply. There are no wells in town, the supply being derived from Lake Erie, the intake extending out 1,600 feet into the lake a little west of the breakwater. A small creek runs through the western part of the town and discharges into the lake a few hundred yards west of the intake. A storm sewer empties into this creek a short distance above its mouth. A number of citizens having modern conveniences in their houses have cesspools to receive their domestic sewage, but the overflow from these cesspools discharges directly into the storm sewer and thus directly reaches the lake. There is, therefore, every probability of the civic water supply being contaminated.

The creek is also constantly polluted from a woolen mill located beside it in the north part of the town, the dye wastes—aniline dyes with various acids, etc.—being regularly discharged into it. The managers of this mill admitted the pollution and defiantly asserted they would continue to utilize it for their waste dyes, etc., unless the Provincial Board of Health provided other suitable means for their disposal, and if the Board otherwise attempted to interfere they would see to the destruction of the Board. The Canning Factory in town also discharges a lot of waste material which will undergo decomposition and reaches the lake a few hundred yards east of the intake. The King's Hotel, where there had been two cases of typhoid fever, I also found to have urinals and basins, etc., connected directly with the sewer, but not even trapped. I gave instructions for this to be remedied without delay.

After my inspection I had a very pleasant conference with the Mayor, the Medical Officer of Health, and several members of the Municipal Council and Local Board of Health. I advised *re* necessary steps to stop pollution of water supply, abolition or control of cesspools, pit closets and other unsanitary conditions; also urged employment of a sanitary engineer to prepare a suitable civic sewer system, all of which were well received, and I have no doubt my visit will result in much improved conditions ere long.

R. W. BELL,
Provincial Inspector of Health.

Toronto, October 10th, 1912.

REPORT *RE* DRAINS AT MILTON.

To the Secretary, Provincial Board of Health.

SIR,—As instructed by you, I visited Milton on Friday, 8th inst., to look into a reported nuisance caused by municipal drains, etc. I found the south-western section of the town a low-lying flat naturally receiving considerable drainage from the high ground to the west in the adjoining township. Residents of this low ground have cut drains through their lots to the street sides, and these have been continued by the municipality along the streets until they reach other private drains across other lots, and so on, from the neighborhood of the G.T.R. Station

across several blocks until the property of Mr. Hamilton is reached on the south-east side of Robert Street, and from there continues through his lots and some adjoining farm lands to 16-mile creek, a few hundred yards distant. The municipality is at present deepening several of these drains, and into them is discharged the drainage from a large section of the town built on higher ground.

While ostensibly only for surface drainage, a large number of houses have been connected with them by tile drains to carry off their domestic sewage. Much of this was seen deposited along the sides of the drains, and complaints were made to me of cellars being flooded with this sewage after freshets or heavy rains, such as had occurred a day or two before my visit. During the dry season the filth on the sides and bottoms of the drains is exposed and emits a most abominable stench. The owners of the farm lands refusing to clean out the drains across their property, they have become pretty well filled up, with the result that Mr. Hamilton gets the bulk of the sewage which overflows an acre or two of his ground and creates a serious nuisance.

The whole situation is bad and is without doubt a menace to the health of the community. Complaints have frequently been made to the town authorities, but without avail. About three years ago the County Buildings were connected with these drains, but on attention being called to the matter the County Council had a septic tank and subsoil tile put in to care for their sewage, and their surface drainage diverted in another direction.

The town has not for two or three years appointed any Medical Officer of Health, and the Board of Health has been virtually asleep, only expecting to be called together in the event of an outbreak of any infectious or contagious disease.

A suggested visit to the High and Public Schools took me to them, and there with Mr. Marcelle, principal, I went through all the rooms and premises. I found the rooms very badly ventilated, the closets rather dilapidated, windows all broken, roof leaky causing seats to become wet and as a result the children stand on them, the urinal trough all rotted and useless: in fact, the place is quite unsanitary.

Later I met with some of the members of the Town Council and Board of Health, and discussed the whole situation, but no inclination was shown to do anything to remedy the admittedly undesirable state of affairs, some saying Mr. Hamilton had nothing to complain of, the drains were the natural course for the flow of water and, in any case, the town could not afford the expense. An engineer from Guelph had been employed three years ago and again last July to advise with them, but it was evidently in regard to improving the present drains, although he pointed out how the sewage could be diverted at the Main Street. I pointed out that the sewage could not be discharged untreated into the creek at any point in its course.

R. W. Bell,

November 12th, 1912. *Provincial Inspector of Health.*

REPORT *RE* MIMICO PIGGERY.

To the Secretary of the Provincial Board of Health.

Sir,—As instructed by you, I inspected to-day the premises of Mr. Alderson, used as a piggery, situated on the south side of College Street, and on the bank of Mimico Creek, in the Township of Etobicoke. There are two frame buildings,

each about 150 feet by 32 feet, and one and one-half stories high, used as pens (48), besides smaller ones nearby and a slaughter-house, the latter not used as such for a year or more. There is a row of outside pens alongside of each of the long buildings, with cement floors which drain into a cement gutter. The gutter next the creek empties into an underground tank about ten feet distant, and this directly into the creek ten feet farther away.

On the opposite side the gutter appears to drain into a hollow in the ground close by, forming a cesspool, but this latter gutter is dry at present, although green slimy water is in the pool.

The liquid filth does not undergo any treatment whatever, but enters the stream as raw sewage, polluting it to a very great extent, and leaving considerable deposit along its banks. This, being directly contrary to the provisions of the Public Health Act, should be abated.

In addition, the whole premises are without doubt a nuisance because of the odors, deposits, and cesspools adjoining. A certain amount of solid refuse is carted across the street and deposited in a vegetable garden, where it is occasionally covered for a time and dug in.

I have sent a similar report to this to Etobicoke Board of Health to-day and called attention to sections 73 and following of the Public Health Act, particularly 79, 81 and 91, under which this nuisance may be dealt with. There are at present about 200 hogs on the premises, and I am informed there are at times in summer from 400 to 500.

R. W. Bell,

Provincial Inspector of Health.

Toronto, October 26th, 1912.

SECOND REPORT *RE* MIMICO PIGGERY.

To the Secretary of the Provincial Board of Health.

Sir,—According to your instructions, I again inspected the Mimico piggery owned by Mr. Alderson, to-day, November 29th.

As compared with my inspection on October 26th, I now find about 80 hogs instead of 200. With dryer weather and the ground somewhat frozen, the premises appear considerably cleaner, otherwise there has been no change.

The liquid filth, although smaller in quantity, is still discharged into the tank and thence into the creek. The disgusting odor from the premises was perceptible at quite a distance away.

Mr. Alderson stated that he contemplated making changes so as to avoid polluting the creek, but no definite scheme apparently decided upon. He admitted that several hundred hogs were usually on the premises during the hot summer months and the odor bad, but it could not be helped.

This certainly would constitute an abominable nuisance, and be a menace to the health of the nearby residents.

R. W. Bell,

Provincial Inspector of Health.

Toronto, November 29th, 1912.

REPORT *RE* SMALLPOX.

To the Chairman and Members, Provincial Board of Health, Ontario.

GENTLEMEN,—During the past year smallpox has been somewhat prevalent in widely separated sections of the Province, but in many places it was not necessary for me to visit, as the disease is better recognized than it was a few years ago and my aid in diagnosis was not required, and where the local authorities had had previous experience and assistance from me, my aid was not again usually necessary for the enforcement of the Public Health Act.

However, in the first half of the year particularly, I did visit a number of places to investigate the conditions and aid the local health authorities in stamping out the disease. I almost invariably found the infected persons had never been vaccinated. None of the cases which came under my purview were of the confluent type, although several were of a severe discrete character.

Without going into detail I might enumerate the places visited with a few comments:

March 1st. *Grand Valley.*—Here I found a baggageman at the railway station in the crust stage, handling the baggage from the trains. He had been released from quarantine in an adjoining municipality. He was immediately isolated. In the village there were eleven cases in six families, all well looked after by Dr. Berwick, the local M.O.H.

March 12th. *Township of Winchester.*—Here the M.O.H. only knew of one case, but at a meeting of the Board of Health the various members reported rumours current, so with the M.O.H., Dr. McLaughlin, I started about 4 p.m. to drive for several hours through the township and we unearthed several cases in four families.

In one case a blacksmith, after recovery from the prodromal symptoms, had worked daily in his shop all through the eruptive stage, of course more or less in contact with many persons. In another instance I found a boy, son of a general merchant, in a small cross-roads hamlet behind the counter selling goods to customers, while the rash was out on him. From another house, where several cases, milk was being sent to the factory.

March 14th. *Whitby.*—Here I found two well-marked cases in the Ladies' College. These were not recognized by the attendant physician until Dr. Warren, M.O.H., was called in. They were without doubt due to contact with a guest (a traveller recovering from the disease) who was present at an evening entertainment in the College a short time before. He and his parents residing in Whitby disputed the fact of his having smallpox, but your Secretary saw him soon after my visit and was satisfied that had been his disease.

Twelve days later, I again, on March 26th, visited Whitby and found the domestic servant in his parents' house down with smallpox.

April 16th. *Township of Ryerson.*—After one of the worst drives, of over twenty miles, in my experience, from Burk's Falls to Maganetewan and beyond, I with Dr. Freeborn, found cases in this township on the shore of Lake Cecebe, but well isolated. We learned of other probable cases which we could not well reach at the time, but I gave all information received to the M.O.H. of the township at Burk's Falls on my return for further investigation. These cases I think were traceable to Grand Valley.

April 27th. *Township of Charlottenburg.*—Driving ten miles east along the bank of the St. Lawrence from Cornwall I found several cases at Summerstown without an effective quarantine. There had been 59 known cases since January. As the summer tourist season was not far off, and there was a large summer hotel on an island close to this village where all came for mail, it was necessary to take very active measures to stamp out the disease speedily. Another eight mile drive took me to the residence of the Township Clerk, where I had arranged to meet the Reeve and Dr. Robinson, M.O.H. After a very satisfactory conference with these officials, I believe the disease was vigorously dealt with and soon stamped out.

May 20th. *St. Thomas.*—A case seen in hospital, son of the proprietor of a hotel, who had come from Windsor with a rash. A female companion had gone on to Port Burwell, so we warned the M.O.H. in both places—the former to vaccinate and keep under surveillance the exposed party and the latter to disinfect the premises from which they came.

May 23rd. *Waterdown.*—Here the Sanitary Inspector was the patient. He and his wife and children were sitting in the public school playground in rear of his premises watching the erection of a nearby bridge, while the school children were playing around them. He had contracted the disease from a patient he had taken to the isolation hospital at Hamilton, two or three weeks previously. On suspicion that he was developing smallpox, the members of his family had been vaccinated the evening prior to my visit. One of them with a companion had gone off shortly before my visit to the G.T.R. Station nearly three miles distant to take a train to visit friends in a neighboring town. I succeeded by hastening to a nearby house and availing myself of their telephone in reaching the G.T.R. agent and prevented them boarding the train and had them returned to quarantine.

May 26. *Woodstock.*—This Sunday morning I went to the assistance of Dr. Ruttan, M.O.H., owing to a doubt regarding a case in a boarding-house. His suspicion was correct. I saw cases in two other sections of the city, seven in all, so we made arrangements to at once open their isolation hospital, which is well situated, and had all patients removed thereto, and exposed parties vaccinated and also quarantined.

May 27th. *Niagara Falls.*—With Dr. Wilson, M.O.H., I visited and conferred with him regarding cases he had in hand—two families with two and four cases respectively, but all are being dealt with quite satisfactorily.

June 12th. *Hamilton.*—Here I visited two families with Dr. Roberts of your Board. He was having difficulty with an outbreak in the family of a prominent clergyman, the attending physician not reporting the cases as smallpox, and certain members of the family objecting to quarantine and causing considerable unpleasantness. But I have reason to believe my visit aided much in overcoming the difficulty and mollifying injured feelings on the part of the infected household.

July 17th. *Ripley.* in County of Bruce. With Dr. McLennan, M.O.H., I visited five houses and saw seven cases. Some of these had been wrongly diagnosed and reported to him as chickenpox. The disease, I understand, was in three other houses. A conference with the Board of Health aided them in dealing with the situation.

July 30th. *Brantford.*—With Dr. Robinson, acting M.O.H., I visited one family and confirmed the diagnosis of smallpox. Cases in this house had been previously called chickenpox.

December 11. *Waterloo.*—Here, with Dr. Baumann, M.O.H., and Dr. Fischer, I visited four families and saw nine cases. Three of the families were in one tenement house. Two of the cases were traced to Hamilton, one of them directly and the other through Heidelburg. Arrangements were made to segregate these cases in one place. Three more cases developed in these same families within a few hours after my visit, but no more before the end of the year.

December 12th. *Bowmanville.*—I was suddenly called to Bowmanville to diagnose a case in a young man in the Balmoral Hotel. There was no doubt about the case. I advised Dr. Tilley, M.O.H., to have him at once removed, vaccinate all exposed persons and keep them under surveillance, have the hotel effectually cleansed and allow it to be reopened. This I understand was done. Dr. Tilley, M.O.H., into whose hands the patient had been turned, resigned his position two or three days later, but his successor, Dr. Clark, undertook to carry out all I had advised.

This completed my smallpox visitation for 1912. In all cases I urged vaccination of all exposed persons and all others who would consent to it, effective isolation of all patients, followed by careful, thorough, and efficient cleansing and disinfection of all infected premises before raising of quarantine.

Trusting my action in all these cases has been satisfactory to the Board, this report is respectfully submitted.

R. W. Bell,

Provincial Inspector of Health.

December 31st, 1912.

REPORT OF WORK DONE IN THE LABORATORY OF THE PROVINCIAL BOARD OF HEALTH, 1912.

To the Chairman and Members of the Provincial Board of Health of Ontario:

Gentlemen, I have the honor to present you the following report of the routine work done in the Toronto Laboratory of the Board.

In addition to the water outfits sent to medical officers of health hitherto, outfits for the collection of suspected diphtheria exudates, sputa from pulmonary cases, and blood from typhoid suspects have been devised, and are supplied to Medical Officers of Health for distribution to the practitioners of their districts. During the last three months of the year, 4,700 of these were distributed. The move has been found to be a popular one. It has added to the efficiency of our tests and made the results more valuable. Outfits of the old style now only occasionally come in. Distribution through the Local Health Officers has been found very satisfactory. In such districts as it is difficult to distribute in this way the outfits are being sent directly to the physicians. The data cards are being more carefully filled out. As this becomes better done valuable statistics will be possible, and notification made from the information collected, passed on to the Local Boards, of especially typhoid and tuberculosis cases in their jurisdictions.

Provision was made to begin the supply of vaccine against typhoid fever. The intention is to supply this especially for those shifting construction and mining camps of the north, where it is found so difficult always to control all the sources of typhoid infection. These vaccines are to be supplied to health officers for distribution amongst the practitioners of the district on demand. We will send to outlying physicians directly, when it is difficult to reach the Local Health Officers.

Such vaccination is hardly to be recommended for general use. In fixed communities the avenues of infection can more profitably be guarded, but in camps—military and industrial especially, where they are to be moved from place to place, the individual needs more protection. We recommend, this vaccination, for all those looking after typhoid cases in hospitals, nurses about the country, and to physicians personally.

During August, September and October, the facilities of the laboratory were used for instruction to the newly appointed District Health Officers. This work was done in conjunction with the Department of Hygiene of the University of Toronto; one-half of each day was given to this work, by some member of the staff.

The Joint High Commission on International Water Ways decided on a joint sanitary survey for the Great Lakes and their connecting rivers. Your laboratory has been preparing for this work, which will commence as soon as the ice goes off, about April 1st, and continue until about October 1st. Two fully equipped laboratories will be put in the field equipped to make and sterilize their own media, and do their culture work on the spot. These will be shifted from station to station as one bit of work after the other is finished. Each will have a staff of four or five trained workers—unskilled help will be picked up when necessary. Boats, tugs, etc., necessary for the collection of the samples will likewise be taken up locally.

Maps are now being made up for each section of the work, and the sample points marked out. Some meetings with those interested and to do the work on the United States side have been had with the idea of agreeing on standards and

co-ordinating methods. On the results of this joint work a final joint report will be made to the Commission, on which it is hoped legislation will finally be based to change these Great Lake water supplies to safe ones which hitherto by neglect and lack of realization of conditions have been sources of enteric disease to quite an abnormal degree. These water sources should be the best in the land with very little fixing up and care, whereas they have been often a curse.

The following table is a synopsis of the specimens examined during the year:

Diphtheria		1,067
Release from isolation	243	
Positive	92	
Negative	151	
Diagnosis	824	
Positive	210	
Negative	614	
Tuberculosis Sputa		1,462
Positive	339	
Negative	1,123	
Typhoid Bloods		615
Positive	112	
Negative	503	
Cases given the Pasteur Preventive Treatment for suspected Rabies		64
Number of injections given	1,383	
Number of animal brains examined for evidence of Rabies		109
Positive	52	
Negative	57	
Milk analyses done for Local Health Boards		207
Fats	76	
Total Solids	30	
Preservatives	48	
Bacteriological	45	
Extraneous Matter	8	
Water analyses made		1,337
Bacteriological	1,329	
Chemical	8	
Liquors for License Department		426
Anti-typhoid vaccine		2
Miscellaneous specimens		97
Total		6,767

Outfits sent out	
Water (parcels)	391
Diphtheria	1,688
Sputa	1,447
Typhoid	1,573
Total	5,099

There has been an increase of over a thousand samples this year over last. The effects of the convenient outfits is already being felt.

As last year, it will be seen the number of negatives exceeds by a great deal the positives. As before, the reason is probably that more use is being made of the facilities in the diagnosis of doubtful and incipient cases. It is hopeful, especially in the case of tuberculosis as an awakening to the importance of using this very great aid in detecting incipient cases, the case that is particularly important if ever tuberculosis is to be controlled.

The number of samples of liquors examined for the active License Department has nearly doubled.

Mr. H. M. Lancaster has this work specially under his supervision, along with the other very excellent work he is doing for us.

Table showing the counties where samples were collected, by whom, and the percentage of proof spirit found in each.

Lab. No.	County.	Inspector.	Per Cent. Proof Spirit.
9670		G. E. Morrison	26.46
9671		" "	1.3
9689	Nipissing	J. A. Stewart	22.43
9690	"	"	24.71
9691	"	"	24.53
9692	"	"	24.18
9702			7.62
9703			7.
9723	Simcoe	W. Fisher	0.08
9724	"	"	2.6
9725	"	"	1.
9738		A. T. Rowell	
9739		"	
9864		G. E. Morrison	2.89
9926	Peel	Jno. D. Orr	7.53
9956	Nipissing	J. McKay	7.89
9957	"	"	7.89
9958	"	"	7.3
9959	Thunder Bay	R. Solightly	7.89
60	Nipissing	Jerry Lefebure	6.83
61	"	"	7.8
62	"	A. T. Rowell	7.18
63	"	"	6.30
64	"	"	7.89
65	Halton	W. A. Ferrah	7.3
92	Nipissing	A. T. Rowell	7.
93	Perth	A. B. Creighton	
94	"	"	
95	"	"	2.97
187	Halton	W. A. Ferrah	1.4
188	"	"	12.79
264	Thunder Bay	P. C. Symons	3.32
265	"	"	3.68
266	"	"	6.83
267	"	"	0.8
268	"	"	5.08
269	"	"	5.25
270	"	"	3.85
329	York	J. Johnston	93.23
330	"	"	96.03
331	"	"	101.64
332	"	"	71.5
418	Nipissing	Jerry Lefebure	5.95
419	"	"	6.13
457	"	R. Smith	2.89
458	"	"	2.45
459	"	"	7.89
460	"	"	8.06
461	"	"	7.89
462	"	"	8.60
463	"	"	8.06
464	"	"	21.20
465	"	"	24.53
466	"	"	30.14
467	"	"	28.04
468	"	"	24.53
493	Thunder Bay	P. C. Symons	10.86
494	"	"	2.10
495	"	"	2.8
496	"	A. R. Elliott	3.32
497	"	"	.5
498	"	"	3.15
499	"	W. H. Stringer	5.95
500	"	"	8.41

Lab. No.	County.	Inspector.	Per Cent. Proof Spirit.
520	Nipissing	W. Fisher	19.1
540	"	J. Lefebure	1.57
541	"	"	8.23
542	"	J. McKay	7.18
543	"	"	8.41
544	"	"	7.89
545	"	"	8.23
546	"	"	3.15
556	Algoma	R. Golightly	3.32
557	"	"	3.5
558	"	"	2.97
569	Thunder Bay	Jno. Moore	2.71
570	"	"	2.71
594	Simcoe	W. Fisher	
595	Nipissing	J. Lefebure	1.57
596	"	J. McKay	8.06
597	"	"	2.1
598	"	"	3.68
599	"	"	7.89
600	"	"	6.13
601	"	"	1.75
602	"	"	8.06
603	"	"	7.89
604	"	"	2.4
605	"	"	2.45
606	"	"	2.45
607	"	"	29.09
608	"	"	
618	Nipissing	J. Lefebure	2.97
619	"	C. W. Percy	15.07
620	"	"	94.63
621	"	"	90.25
622	"	J. Lefebure	7.71
623	"	J. McKay	8.23
633	"	J. Lefebure	1.92
634	"	"	1.92
635	"	J. McKay	23.83
636	"	R. T. Smith	28.04
637	"	"	0.7
638	"	"	32.83
639	"	"	1.92
640	"	"	12.26
641	"	"	8.93
642	"	"	25.06
643	"	"	22.43
644	"	"	29.44
646	"	J. Lefebure	2.45
647	"	J. McKay	13.1437
648	"	J. Lefebure	2.27
649	"	J. McKay	2.27
650	"	J. Lefebure	2.45
651	"	"	2.27
652	"	"	2.45
653	"	J. McKay	30.14
654	"	"	2.45
655	"	J. Lefebure	19.62
656	"	J. McKay	29.96
657	"	J. Lefebure	2.27
658	"	J. McKay	21.73
659	"	J. Lefebure	20.85
660	"	J. McKay	7.53
661	"	J. Lefebure	1.57
662	"	J. McKay	1.57
663	"	J. Lefebure	2.45
664	"	J. McKay	1.57
665	"	"	1.57
666	"	"	2.71

Lab. No.	County.	Inspector.	Per Cent. Proof Spirit.
667	"	J. McKay	1.92
668	"	"	23.13
669	"	"	2.71
670	"	"	23.13
671	"	"	2.71
672	"	J. Lefebure	2.1
673	"	J. McKay	1.92
674	"	J. Lefebure	2.1
675	"	J. McKay	31.29
676	"	J. Lefebure	3.32
677	"	E. D. Jordon	69.39
710	Victoria	Wm. Thorbury	2.27
711	"	"	2.62
722	Nipissing	J. McKay	2.89
723	"	"	8.41
724	"	J. Lefebure	1.92
725	"	"	1.92
767	York	J. Johnstone	124.07
768	"	"	107.95
769	Nipissing	R. T. Smith	18.22
770	Thunder Bay	A. R. Elliott	3.03
771	"	"	2.1
772	"	"	Seal broken
773	"	"	Seal broken, cork out
774	Nipissing	J. McKay	1.22
775	"	"	23.13
776	"	"	22.43
777	"	J. Lefebure	21.73
778	"	"	22.80
779	"	"	1.92
879	"	R. T. Smith	30.14
880	"	"	24.18
881	"	"	23.83
882	"	"	23.30
914	York	J. Johnston	24.18
915	"	"	20.09
920	Nipissing	J. McKay	22.43
921	"	W. Percy	8.41
922	"	"	5.95
923	"	"	5.95
924	"	"	6.48
979	"	J. Smith	7.71
980	"	"	6.48
981	"	"	5.08
982	"	"	8.06
983	"	"	3.32
984	"	"	5.6
985	"	"	5.78
986	"	"	3.5
987	"	"	25.06
988	"	"	5.95
989	"	"	7.
990	"	"	25.06
991	"	"	7.18
992	"	"	23.13
993	"	"	5.78
994	"	"	3.32
995	"	"	8.06
996	"	"	5.78
997	"	"	7.
998	"	J. Stewart	8.06
999	Nipissing	"	2.27
1000	"	"	Bottle empty
1001	"	"	7.53
1002	"	"	24.53
1003	"	"	2.97
1004	"	J. Smith	3.03
1005	"	"	3.85

Lab. No.	County.	Inspector.	Per Cent. Proof Spirit.
1006	"	"	3.32
1007	"	"	5.43
1008	"	"	6.83
1009	"	"	8.93
1010	"	"	3.5
1011	"	"	3.5
1012	"	"	2.1
1013	"	"	8.41
1014	"	"	3.68
1015	"	"	7.89
1016	"	"	7.89
1017	"	"	23.13
1018	"	"	8.93
1019	"	"	8.41
1020	"	"	8.23
1021	"	"	8.06
1022	"	"	8.06
1023	"	"	7.89
1055	York	A. E. Sarvis	7.18
1056	"	"	17.87
1057	Nipissing	J. McKay	31.54
1058	"	Lefebure and McKay	24.53
1059	"	J. Lefebure	31.54
1060	"	W. S. Blackwell	8.58
1061	"	"	7.89
1063	Renfrew	T. J. Roch	124.
1186	Nipissing	J. Lefebure	3.15
1187	"	J. McKay	26.98
1188	"	J. Lefebure	31.54
1189	"	J. McKay	3.15
1227	Brant	R. J. Eacrett	1.92
1228	"	"	1.05
1288	Nipissing	J. Lefebure	20.39
1289	"	H. P. McGrath	25.76
1290	"	"	1.05
1328	York	Walsh and Sarvis	7.53
1329	"	"	8.06
1330	"	"	
1355	Wentworth	Clarke and Nicholson	1.4
1356	Nipissing	J. Stewart	7.
1357	"	"	7.53
1358	Nipissing	J. Lefebure	24.18
1359	"	J. Stewart	3.85
1360	"	"	3.68
1361	"	"	7.89
1362	"	"	23.83
1363	"	"	8.23
1364	"	"	7.71
1365	"	"	6.48
1366	"	"	8.06
1367	"	"	5.6
1368	"	"	4.2
1401	"	H. P. McGrath	2.45
1402	"	"	2.1
1403	"	"	2.1
1404	"	"	4.13
1471	"	R. T. Smith	2.95
1472	"	"	2.62
1473	"	"	7.89
1474	"	"	68.34
1661	"	McKay & Lefebure	2.1
1676	"	Jas. R. Dey	7.
1677	"	"	7.18
1678	"	"	7.36
1791	York	License Branch	(Methyl. Alcohol and Cedar Oil.
1792	Nipissing	R. T. Smith	23.3
1793	"	"	23.13

Lab. No.	County.	Inspector.	Per Cent. Proof Spirit.
1806	Wellington	Jas. O'Brien	76.23
1807	"	"	76.23
1808	"	"	71.85
1809	"	"	73.60
1810	"	"	73.60
1811	"	"	73.6
1812	"	"	71.85
1813	"	"	71.85
1814	"	"	75.35
1815	"	"	70.08
1880	Lanark	J. J. Morris	5.78
1881	Nipissing	H. P. McGrath	0
1882	"	"	0
2000	York	Sergt. Murphy	2.27
2001	Nipissing	J. D. McKay	3.41
2002	"	"	3.41
2003	"	"	3.41
2045	"	R. T. Smith	25.06
2046	"	"	24.71
2047	"	"	24.71
2048	"	"	23.83
2117	Nipissing	J. Lefebure	1.92
2118	"	"	1.92
2119	"	W. Blackwell	2.27
2120	"	"	2.5
2121	"	"	3.5
2122	"	"	2.45
2123	"	"	2.45
2154	Lanark	McGregor	7.36
2155	Nipissing	W. Blackwell	7.53
2156	"	"	7.71
2157	"	"	7.71
2158	"	"	0.7
2159	Wellington	J. O'Brien	78.91
2160	"	"	79.73
2161	"	"	79.73
2162	"	"	78.91
2239	Algoma	F. A. Van Norman	3.32
2276		Dept.	24.0
2277		"	24.71
2313		"	2.27
2314	Victoria	W. Thornbury	1.75
2315		Prov. Police	2.10
2316		"	2.15
2380	Grey	Sarvis & Waldeck	1.05
2381	"	Prov. Officers	1.22
2553	Nipissing	J. D. McKay	
2554	"	R. T. Smith	7.71
2555	"	"	2.80
2556	"	"	7.80
2557	"	A. T. Ravell	8.23
2558	"	"	5.43
2559	"	"	2.27
2755		Dept.	61.86 (over proof)
2874	Swastika P.O.	O. Robertson	2.45
2875	"	"	1.75
2876	"	"	3.06
2970	Nipissing	H. P. McGrath	6.48
2971	"	James Dey	6.3
2972	"	H. P. McGrath	7.0
2973	"	James Dey	6.83
2974	"	H. P. McGrath	6.83
2975	Simcoe	W. Fisher	9.98
2976	"	"	12.26
3012	Wentworth	James Sturdy	24.
3013	"	J. Nicholson	1.92
3014	"	"	1.92
3072	Nipissing	H. P. McGrath	5.95
3073	"	"	7.0

Lab. No.	County.	Inspector.	Per Cent. Proof Spirit.
3074	"	H. P. McGrath	6.45
3075	"	"	5.95
3095	"	J. Lefebure	21.2
3096	Frontenac	G. E. Morrison	23.13
3097	"	"	15.59
3098	Frontenac	"	24.0
3126	Nipissing	R. T. Smith	11.22
3127	"	"	1,23
3128	"	"	1,23
3230	Dundas	Waldeck & Sarvis	5.08
3231	York	"	4.20
3232	Thunder Bay	John Moore	5.6
3421	York	G. E. Morrison	2.10
3422	"	"	5.43
3446	Simcoe	W. Fisher	2.10
3475	Middlesex	Thos. Magledery	5.78
3542	Wellington	James O'Brien	72.90
3543	"	"	70.92
3544	York	Joseph Dickenson	(over proof) 1.64
3545	"	"	82.19
3546	"	Joseph Geddes	94.19
3547	"	J. Dickenson	87.62
3559	Nipissing	Herman Vick	21.2
3560	"	"	6.74
3614	Simcoe	A. E. Sarvis	2.80
3615	"	Sarvis & Walderk	2.80
3616	Renfrew	J. Connolly	20.85
3617	"	"	2.27
3618	"	"	1.05
3653	Nipissing	J. Lefebure	13.14
3654	York	Dickenson	84.64
3655	"	"	61.19
3656	"	Johnston	61.24
3657	"	"	61.16
3658	"	"	57.91
3659	"	"	33.64
3660	"	"	39.34
3661	"	"	53.45
3662	"	"	50.99
3663	"	"	51.34
3664	"	"	43.19
3665	"	"	62.77
3683	"	Dept.	1.92
3728	Muskoka	H. Boyer	3.32
3729	"	"	1.92
3830	Hastings	G. E. Morrison	10.25
3831	"	"	4.9
3832	"	"	5.43
3833	"	Walderk & Sarvis	10.33
3834	"	G. E. Morrison	10.25
3835	"	"	5.25
3836	"	"	10.33
3837	Nipissing	J. D. R. Jameson	23.13
4027	Northumberland	Sarvis & Walderk	9.46
4028	"	"	6.13
4029	"	"	5.08
4030	Hastings	"	3.85
4031	Northumberland	"	11.21
4032	Hastings	"	1.85
4033	"	"	5.69
4034	"	"	1.75
4035	Norfolk	A. W. Birdsall	20.50
4036	Hastings	G. E. Morrison	3.85
4114	Northumberland	Sarvis & Walderk	3.5
4115	"	"	3.32
4116	"	"	2.27
4142	Grey	Beckett	0.87
4143	"	"	2.36
4144	"	"	2.18

Lab. No.	County.	Inspector.	Per Cent. Proof Spirit.
4186		Dept.	26.28
4187	Grey	"	1.22
4188	"	"	1.05
4244		Morrison	1.05
4245		"	0
4246		"	.52
4247		"	0
4248		"	0
4249		"	0
4250		"	0.35
4284	Peel	A. E. Sarvis	9.63
4453	Middlesex	Galpin	6.30
4454	"	"	0.7
4473	"	"	5.25
4484	"	"	11.91
4557	Simcoe	R. Henderson	1.92
4558	"	"	0.87
4559	"	"	2.89
4560	"	"	0.70
4561	"	"	2.54
4854	"	W. Fisher	7.53

During this year, 109 animal brains were examined for suspected rabies—less than half proved positive typically. It is quite possible that 20 per cent. of the rest would have proved positive if animal inoculation had been done, but as our examinations are made with a view to preventive treatment for the human beings that may have been bitten and that inoculated animals take from 15 to 300 days before they come down, we confine our examination to the search for negri bodies.

It is too bad that it was not more generally recognized that the biting animal should not be immediately killed, but held over for observation. There are cases where the animal is furious. There is nothing, then, to do but kill it. In the great majority of cases, the animal is fairly docile and could be either tied up or confined. When a dog bites because of rabies he is usually well advanced in the disease and has but a few days at most to live, practically never longer than 6 or 7 days. If at the end of 10 days it is still well, there is not one chance in 10,000 that it has rabies. If it should die in the interim, the delay has not been hurtful to the patient bitten. If the animal gets well all thoughts of rabies will be removed—see what a relief this would be to all concerned.

The following table will show approximately the number of brains examined with the counties that supplied them, and also the number of positive rabies amongst them, for the last three years. The disease started in Toronto, in September, 1910. The Western Ontario outbreak started at Niagara Falls a couple of months later. The two outbreaks fused and have since covered Western Ontario. It has not gone east beyond York County.

New York State and the State of Michigan had it before Ontario.

Our outbreaks have originated, the Toronto one from dogs sent in to fanciers from Boston, the Western Ontario one from a dog that came over the bridge at Lewiston from New York State.

It is said that Manitoba and Saskatchewan received theirs from us. It has, however, been prevalent in Minnesota for some years now.

For nearly a year at the beginning of the outbreak a muzzling by-law was put into force. It just about obliterated it, but was finally raised—unfortunately too early. It has not been found expedient to re-establish it. Unfortunately it is getting a stronger and stronger hold. It may soon be necessary to re-establish the quarantine.

REGULATIONS OF THE PROVINCIAL BOARD OF HEALTH *RE* RABIES.

The following "Regulations for the Prevention of Rabies in Man," have been approved of by the Lieutenant-Governor-in-Council:—

That all dogs within the following Counties, namely:—

Brant	Huron	Perth
Bruce	Kent	Simcoe
Dufferin	Lambton	Waterloo
Elgin	Lincoln	Welland
Essex	Middlesex	Wellington
Grey	Norfolk	Wentworth
Haldimand	Oxford	York
Halton	Peel	

must be either securely chained in an out-house or other building, or kept under lock and key, or efficiently muzzled with metallic muzzles in a manner satisfactory to the Inspectors of the Department of Agriculture of the Dominion of Canada. Provided, however, that in any municipality where rabies is actually known to exist, the muzzling privilege may be withdrawn, in which event all dogs must be confined or isolated by being chained up or kept under lock and key.

CHAS. A. HODGETTS,
Secretary.

Toronto, Feb. 9th, 1910.

To Local Board of Health.

Re Rabies.

For the suppression of the further spread of rabies in the Province of Ontario, and for the prevention of its communication to human beings, the accompanying regulations, having been duly approved of, are in force in each and every municipality in the Counties of the Province of Ontario named therein.

Under the provisions of Section 14 of the Public Health Act, it is the duty of the Local Boards of Health in the several Counties to superintend and see to the execution of any regulations made by the Provincial Board, or to execute, or aid in executing the same within their respective districts; and to do and provide all such acts, matters and things as are necessary for superintending or aiding in the execution of such regulations, or for executing the same, as the case may require.

The attention of all Municipal Councils and Boards of Police Commissioners in cities of 100,000 or more is directed to the provisions of Section 540 of the Consolidated Municipal Act, which empower them to pass by-laws and to make regulations as to dogs and the killing of the same, and it is important that these provisions should be immediately enforced by by-law.

It is confidently expected that the hearty support and co-operation of all municipalities along the lines indicated above will result in the suppression of rabies within a few months. Failure, however, on the part of municipal authorities to enforce the regulations and provisions of the Statutes will result in prolonging the period of time during which the regulations will remain in force.

By Order.

Secretary Provincial Board of Health.

DIRECTIONS TO BE FOLLOWED WHERE THE ANIMAL IS SUSPECTED OF BEING AFFECTED WITH RABIES.

It should, if possible, be captured alive, placed in a cage where it can do no harm, and be carefully watched for at least ten days. If affected with rabies, symptoms may appear within forty-eight hours, and death, as a rule, occurs within a few days. Affected animals are scarcely ever known to recover.

In order that other causes of death may be excluded, material should be forwarded to the laboratory for confirmatory diagnosis.

The head may be severed from the body and forwarded by express, packed in sufficient ice surrounded by straw or sawdust.

Full information as to history, clinical symptoms, etc., should also be furnished.

Specimens should be addressed

The Laboratory,
Provincial Board of Health,
Toronto.

ANIMAL BRAINS EXAMINED FOR RABIES.

County.	Year.	Month.	Animal.	Negri. Bodies	Suspicious History.
Wellington	1910	Sept.	Dog	—	—
Halton	"	"	"	+	—
Oxford	"	"	"	—	—
Nipissing	"	"	"	+	—
Wentworth	"	"	"	—	—
Huron	"	"	"	+	—
Peel	"	"	"	—	—
Halton	"	"	"	—	—
Wentworth	"	"	"	—	—
York	"	"	"	—	—
Oxford	"	"	"	—	—
Wellington	"	"	"	—	—
Wentworth	"	Oct.	"	—	—
York	"	"	Cat	—	—
Simcoe	"	"	Dog	—	—
Kent	"	"	"	—	—
Huron	"	"	"	—	—
York	"	"	"	—	—
Wentworth	"	"	"	—	—
Halton	"	Nov.	"	—	—
Lincoln	"	"	"	—	—
Nipissing	"	"	"	—	—
Middlesex	"	"	"	—	—
Halton	"	"	"	—	—
Welland	"	Dec.	"	+	—
Huron	"	"	"	—	—
Kent	"	"	"	—	—
Nipissing	"	"	"	+	—
York	1911	Feb.	"	—	—
Wellington	"	March	"	—	—
York	"	"	"	—	—
York	"	"	"	+	—
Kent	"	"	"	—	—
Welland	"	"	"	+	—
York	"	April	"	+	—
Middlesex	"	May	"	—	—
Peterborough	"	"	"	—	—
York	"	"	"	—	—
Northumberland	"	"	"	—	—
York	"	June	"	+	—
York	"	"	"	+	—
Lambton	"	"	"	—	—
Waterloo	"	"	"	—	—
York	"	"	"	—	—
York	"	"	"	—	—
York	"	"	"	+	—
York	"	"	"	+	—
York	"	"	"	+	—
York	"	"	"	—	—
York	"	Aug.	"	—	—
Peel	"	"	"	+	—
Middlesex	"	Sept.	"	—	—
Huron	"	"	"	—	—
York	"	"	"	+	—
York	"	"	"	—	—
York	"	Oct.	"	+	—
York	"	"	"	+	—
York	"	"	"	+	—
York	"	"	"	+	—
York	"	"	"	+	—
York	"	"	"	—	—
Wentworth	"	"	"	+	—

ANIMAL BRAINS EXAMINED FOR RABIES.—Continued.

County.	Year.	Month.	Animal.	Negri. Bodies.	Suspicious History.
York	1911	Nov.	Dog	+	—
York	"	"	"	+	—
York	"	"	"	—	—
Kent	"	"	"	—	—
Middlesex	"	"	"	—	—
York	"	"	"	+	—
York	"	"	"	—	—
York	"	"	"	+	—
Huron	"	"	"	+	—
York	"	"	"	+	—
York	"	"	"	—	—
Huron	"	"	"	—	—
York	"	"	"	+	—
York	"	Dec.	"	+	—
Lincoln	"	"	"	—	—
York	"	"	"	+	—
York	"	"	"	—	—
York	"	"	"	—	—
Huron	"	"	"	+	—
Thunder Bay	1912	Jan.	Man	+	—
Thunder Bay	"	"	Dog	—	—
Thunder Bay	"	"	"	—	—
York	"	"	"	—	—
York	"	"	"	+	—
Thunder Bay	"	"	"	+	—
Huron	"	"	"	—	—
York	"	"	"	—	—
Huron	"	Feb.	"	—	—
Huron	"	"	"	+	—
York	"	"	"	+	—
York	"	"	"	+	—
Oxford	"	"	"	—	—
Thunder Bay	"	"	"	+	—
Wentworth	"	"	"	+	—
Peel	"	"	"	—	—
Huron	"	"	"	—	—
Cobalt	"	"	"	+	—
Simcoe	"	"	"	+	—
York	"	"	"	+	—
Wellington	"	"	"	—	—
York	"	"	"	—	—
Simcoe	"	"	"	—	—
Peel	"	"	"	+	—
York	"	"	"	+	—
York	"	"	"	+	—
Haileybury	"	"	"	—	—
York	"	Mar.	"	+	—
Perth	"	"	"	+	—
Simcoe	"	"	"	+	—
Huron	"	"	"	+	—
Huron	"	"	"	—	—
Wellington	"	"	"	+	—
Halton	"	"	"	+	—
York	"	"	"	+	—
York	"	"	"	—	—
York	"	"	"	+	—
York	"	"	"	—	Yes
Wellington	"	"	"	—	—
York	"	"	"	+	—
Perth	"	"	Cow	+	—
York	"	"	Dog	—	—
Huron	"	April	"	—	—

ANIMAL BRAINS EXAMINED FOR RABIES.—Concluded.

County.	Year.	Month.	Animal.	Negri. Bodies.	Suspicious History.
Thunder Bay	1912	April	Dog	—	—
York	"	"	"	+	—
Wellington	"	"	"	—	—
Wellington	"	"	"	—	—
Wellington	"	"	"	—	—
York	"	"	"	+	—
York	"	"	"	+	—
Northumberland	"	"	"	—	—
York	"	May	"	+	—
York	"	"	"	+	—
Thunder Bay	"	"	"	+	—
York	"	"	Cat	+	—
York	"	"	Dog	—	—
Peel	"	"	"	—	—
York	"	"	"	+	—
York	"	"	"	+	—
York	"	"	"	—	—
Parry Sound	"	"	"	—	—
York	"	"	"	—	—
York	"	June	"	+	—
York	"	"	"	+	—
Peterborough	"	"	"	—	—
Halton	"	July	"	—	—
Thunder Bay	"	"	"	—	—
Elgin	"	"	"	—	—
Wellington	"	"	"	—	—
Peel	"	"	"	—	—
York	"	Aug	"	—	—
Oxford	"	"	"	—	—
Kent	"	"	"	+	—
York	"	"	"	+	—
Halton	"	"	"	—	—
Perth	"	Sept	"	—	—
York	"	"	"	—	—
Huron	"	"	"	—	—
York	"	"	"	+	—
York	"	"	"	—	—
Elgin	"	Nov	"	—	—
Oxford	"	"	Horse	+	—
York	"	"	Dog	—	—
York	"	"	"	—	—
York	"	Dec.	"		

The Pasteur preventive treatment for rabies was begun in 1910. This was done to ensure accurate treatment, to avoid delay, and to provide the victims at the lowest price possible, and with the least inconvenience possible, with this desirable treatment.

At the present time the vaccine is being supplied to us through the courtesy of the City of New York. The daily doses are received each day by mail. The treatment usually takes 21 days—in intensive cases 28 days.

The vaccine costs $20.00 for each case. This is the only charge made to the patient. The treatment is otherwise given free.

We have treated in all 167 patients. The greater number of these were bitten by rabid dogs—a few by animals suspected of being rabic.

We have had no ill effects in any of the cases, and so far had no failures.

The following table shows the number of samples and their denominations by the month, with the results for the year 1912.

The following tables show the number of samples of each denomination examined for each town in each County by month.

These sheets are incomplete under each captions except for the last three months of the year, when the new forms were put into use.

The Pasteur treatments, the rabies diagnoses, the milk examinations and the liquors have heretofore been classed en masse with the "miscellaneous."

All of which is respectfully submitted,

JOHN A. AMYOT.

TABLE SHOWING CASES GIVEN THE PASTEUR PREVENTIVE TREATMENT FOR RABIES FROM MARCH 1ST, 1910, TO JAN. 1ST, 1912.

County.	Age.	Sex.	Bitten.	Location of bite.	Character of bite.	Animal injuring.	Rabic or not.	Cauterized.	Hours after.	Caustic.	Began treatment.	Injections given.	Untoward symptoms.	Remarks.
			1910								1910			
Kent	23	male	Feb. 28	hand	slight	dog	+	no	.....	.....	Mar. 4	25	none	
"	35	"	Mar. 2	"	"	"	+	yes	?	?	" 4	25	"	
Haldimand	28	"	Feb. 26	"	"	"	?	"	?	?	" 5	25	"	
"	22	"	Mar. 1	"	"	"	?	no	.....	.....	" 5	25	"	
Waterloo	16	"	Mar. 3	"	"	"	held	"	.....	.....	" 5	17	"	Dog well—discont'd.
Wentworth	19	"	Feb. 26	"	"	"	?	"	.....	.....	" 5	25	"	
"	7	"	" 25	"	"	"	?	yes	?	carbolic	" 5	25	"	
Middlesex	28	"	" 28	"	"	horse	+	no	.....	.....	" 6	25	"	
"	20	"	" 28	"	"	"	+	"	.....	.....	" 6	25	"	
"	42	"	" 28	"	"	"	+	"	.....	.....	" 6	25	"	
"	61	"	" 28	"	"	"	+	"	.....	.....	" 6	25	"	
"	20	"	" 28	"	"	"	+	"	.....	.....	" 6	25	"	
"	32	"	" 28	"	"	"	+	"	.....	.....	" 6	25	"	
"	45	"	" 28	"	"	"	+	"	.....	.....	" 6	25	"	
Halton	12	"	" 14	neck	"	dog	+	"	.....	.....	" 6	25	"	
Welland	7	female	" 26	back	severe	"	+	yes	1 hour	?	" 7	25	"	
Waterloo	4	male	Mar. 5	hand	deep	"	+	"	?	?	" 8	25	"	
Wentworth	23	"	Feb. 23	"	slight	"	?	no	.....	.....	" 9	25	"	
"	28	"	" 16	"	deep	"	+	"	.....	.....	" 9	25	"	
Oxford	20	"	" 23	"	slight	"	+	"	.....	.....	" 9	25	"	
Middlesex	53	female	" 28	"	"	horse	+	"	.....	.....	" 10	25	"	
"	30	male	" 28	"	"	"	+	"	.....	.....	" 10	25	"	
Lambton	19	female	Mar. 8	face	"	dog	held	yes	?	carbolic	" 10	13	"	
Durham	14	male	" 3	arm	"	"	+	no	.....	.....	" 10	25	"	Dog well—discont'd.
Wentworth	12	"	Feb. 25	hand	deep	"	+	"	.....	.....	" 12	25	"	
"	50	"	Mar. 1	forearm	"	"	+	yes	2 hours	nitric	" 12	30	"	Nearly had delirium.
Oxford	47	"	" 10	hand	"	"	+	"	10 hours	?	" 12	25	"	
Middlesex	60	male	Feb. 12	neck	slight	horse	+	no	.....	.....	Mar. 12	25	none	
Huron	60	"	Mar. 9	hand	deep	cat	?	"	.....	.....	" 12	25	"	
Wellington	45	"	" 4	"	"	dog	+	"	.....	.....	" 12	25	"	
Waterloo	10	"	" 12	arm	slight	"	+	"	.....	.....	" 14	25	"	
Huron	10	"	" 2	hand	deep	"	+	"	.....	.....	" 14	25	"	
"	17	"	" 10	"	"	cat	?	"	.....	.....	" 10	26	"	
Lambton	42	"	" 7	leg	slight	dog	?	yes	1 hr.	$agno_3$	" 17	26	"	
Norfolk	19	"	" 5	hand	"	"	+	no	.....	.....	" 19	25	"	

Oxford	20	male	Mar.	19	hand	slight	dog	?	no	.....	.....	Mar.	20	25	none	
Huron	17	"	"	11	leg	"	"	+	yes	6 hrs,	cu. so_4	"	21	25	"	
Lambton	20	"	"	14	"	"	"	+	no	.....	.....	"	27	25	"	
Carlton	23	"	"	24	hand	deep	sheep	+	"	.....	.....	"	28	25	"	Needle in Laboratory at Ottawa.
Waterloo	12	female	"	28	"	"	dog	+	yes	1 hr.	?	April	5	25	"	
Brant	32	male	"	31	"	"	"	?	"	2 hrs,	nitric	"	6	25	"	
Perth	23	"	"	24	"	slight	"	?	no	.....	.....	"	8	25	"	
"	28	"	"	24	"	"	"	?	"	.....	.....	"	8	25	"	
Oxford	16	female	"	29	"	"	"	+	yes	?	?	"	12	25	"	
Huron	29	male	April	2	leg	"	"	+	"	1 hr.	nitric	"	13	25	"	
Kent	13	"	"	7	thigh	"	"	?	no	.....	.....	"	15	25	"	
Wellington	4	female	"	12	lip	"	"	?	"	.....	.....	"	15	30	"	
Perth	10	"	"	3	leg	"	"	?	yes	1 hr.	ereolin	"	16	25	"	
Oxford	59	"	Mar.	8	hand	"	horse	+	no	.....	.....	"	24	25	"	
"	21	"	"	8	"	"	"	+	"	.....	.....	"	24	25	"	
Waterloo	21	"	April	22	face	"	dog	?	yes	6 hrs.	$agno_3$	"	26	28	"	
"	12	male	"	23	leg	"	"	+	no	.....	.....	"	26	25	"	
Oxford	48	"	"	24	hand	"	"	+	"	.....	.....	"	29	25	"	
"	46	female	"	24	"	"	"	+	"	.....	.....	"	29	25	"	
Lincoln	59	male	May	2	leg	deep	"	+	yes	1 hr.	$agno_3$	May	6	25	"	
"	59	female	"	2	"	"	"	+	"	1 hr.	$agno_3$	"	6	25	"	
Middlesex	7	"	April	30	"	slight	"	+	no	.....	.....	"	10	25	"	
Kent	48	male	May	3	hand	"	ox	+	"	.....	.....	"	11	25	"	
"	35	"	"	3	"	"	"	+	"	.....	.....	"	14	25	"	
Huron	43	"	"	12	leg	"	dog	+	yes	1 hr.	turps.	"	21	25	"	
"	50	female	"	12	hand	deep	"	+	no	.....	.....	"	28	24	"	
"	25	male	"	31	leg	slight	"	held	yes	1 hr.	$agno_3$	June	3	15	"	Dog well June 13.
"	4	"	Jan.	3	face	"	"	+	"	1 hr.	carbolic	"	23	26	"	
Huron	10	female	June	3	leg	deep	dog	?	yes	1 hour	nitric	July	8	25	none	
Kent	11	"	July	3	"	slight	cat	+	no	.....	.....	"	8	25	"	
Kent	7	male	"	4	arm	"	"	+	"	.....	.....	"	8	25	"	
Oxford	14	"	"	9	"	"	dog	+	"	.....	.....	"	17	25	"	
Kent	35	"	Sept.	15	nose	"	"	+	yes	6 hours	carbol.	Sept.	10	32	"	
Waterloo	42	"	"	3	hand	"	"	?	no	.....	.....	"	16	25	"	
Huron	2	"	"	10	lip	"	"	+	"	.....	.....	"	20	25	"	
Perth	20	"	Aug.	30	leg	"	"	?	yes	.....	nitric	Oct.	29	25	"	
Welland	10	"	Dec.	5	hand	"	"		no	.....	.....	Dec.	12	25	"	
Kent	60	"	"	9	"	"	"	?	"	.....	.....	"	20	25	"	
73		16–f 57–m														
			1911													
York	28	male	Mar.	10	hand	slight	dog	+	no	.....	.....	Mar.	14	25	none	
Welland	5	"	"	20	"	"	"	+	"	.....	.....	"	25	25	"	
"	25	female	"	20	"	"	"	+	"	.....	.....	"	25	25	"	

TABLE SHOWING CASES GIVEN THE PASTEUR PREVENTIVE TREATMENT.—Continued.

County.	Age.	Sex.	Bitten.	Location of bite.	Character of bite.	Animal injuring.	Rabic or not.	Cauterized.	Hours after.	Caustic.	Began treatment.	Injections given.	Untoward symptoms.	Remarks.
			1911											
York	4	male	June 1	face	deep	dog	+	yes	1 hour	carbol.	Mar. 4	27	none	
"	30	female	" 1	hand	slight	"	+	no	.....	.....	" 4	20	"	
"	18	male	" 4	"	deep	"	+	yes	1 hour	nitric	" 8	27	"	
"	5	"	May 31	arm	"	"	+	no	.....	.....	" 15	24	"	
"	42	"	June 14	hand	"	"	+	yes	1 hour	nitric	" 18	24	"	
"	65	"	Oct. 15	"	"	"	+	"	"	carbol.	Oct. 19	22	"	
"	10	"	" 16	"	slight	"	+	no	.....	.....	" 19	26	"	
"	3	"	" 16	"	"	"	+	"	.....	.....	" 19	26	"	
"	27	female	" 16	"	"	"	+	"	.....	.....	" 19	26	"	
"	7	male	" 18	"	deep	"	?	"	.....	.....	" 20	26	"	
"	45	female	" 23	"	slight	"	?	"	.....	.....	" 25	25	"	
"	19	male	" 23	"	"	"	?	"	.....	.....	" 25	25	"	
Waterloo	23	"	" 28	"	"	"	+	"	.....	.....	Nov. 1	25	"	
York	16	female	Nov. 7	leg	deep	cat	+	"	.....	.....	" 15	25	"	
"	3	male	" 10	hand	slight	"	+	"	.....	.....	" 15	25	"	
"	5	"	" 21	leg	"	dog	+	"	.....	.....	" 28	25	"	
"	33	"	" 23	hand	"	"	+	"	.....	.....	" 28	25	"	
"	36	female	" 25	"	"	"	+	"	.....	.....	" 28	25	"	
"	55	"	" 25	"	"	"	+	"	.....	.....	" 28	25	"	
"	28	"	" 23	"	"	"	+	"	.....	.....	Dec. 2	25	"	
"	35	"	Dec. 13	"	"	"	+	"	.....	.....	" 17	25	"	
"	5	male	Nov. 25	"	"	"	+	"	.....	.....	" 20	25	"	
25		9–f 16–m												
			1912											
Brant	30	male	Jan. 5	hand	slight	dog	+	no	.....	.....	Jan. 12	25	none	
Elgin	30	"	" 15	arm	"	"	+	yes	1 hour	nitric	" 19	25	"	
"	55	"	" 15	hand	"	"	+	"	1 "	"	" 19	25	"	
"	8	"	" 14	"	deep	"	+	"	1 "	"	" 21	25	"	
York	17	female	" 26	"	slight	"	+	no	.....	.....	Feb. 2	25	"	
"	10	male	Feb. 8	"	"	"	+	"	.....	.....	" 10	25	"	
"	14	"	" 8	"	"	"	+	"	.....	.....	" 10	25	"	
Thunder Bay	39	"	" 6	"	"	"	+	"	.....	.....	" 10	25	"	
York	49	"	" 4	"	"	"	+	"	.....	.....	" 10	25	"	

Thunder Bay	29	male	Feb.	6	hand	slight	dog	+	yes	1 hour	carbolic	Feb.	11	25	none	
Perth	7	female	"	13	arm	deep	"	+	"	5 hours	"	"	17	25	"	
"	8	"	"	13	forearm	slight	"	+	"	5 "	"	"	17	25	"	
Simcoe	66	male	"	13	arm	"	"	+	"	1 hour	"	"	21	25	"	
York	8	"	"	17	hand	deep	"	+	no	.....	.....	"	22	25	"	
"	5	"	"	21	"	slight	"	+	yes	1 hour	carbolic	"	24	25	"	
"	22	"	"	21	leg	"	"	+	"	1 "	KoH	"	24	25	"	
"	24	female	"	23	arm	deep	"	+	no	.....	.....	"	27	25	"	
Peel	14	male	"	24	"	"	"	+	"	.....	.....	"	27	25	"	
"	28	"	"	24	leg	"	"	+	"	.....	.....	"	27	25	"	
"	21	"	"	24	"	"	"	+	"	.....	.....	"	27	25	"	
Simcoe	16	"	Mar.	4	nose	"	"	+	"	.....	.....	Mar.	12	32	"	
York	38	"	"	11	hand	slight	"	+	"	.....	.....	"	20	25	"	
"	6	"	"	16	"	"	"	+	"	.....	.....	"	21	25	"	
"	56	"	"	18	leg	"	"	+	yes	1 hour	carbolic	"	22	13	"	Stopped heart.
"	10	"	"	26	arms	deep	"	+	"	1 "	"	"	29	25	"	
Dufferin	36	"	April	28	hand	slight	cow	+	no	.....	.....	May	2	25	"	
"	32	"	"	28	"	"	"	+	"	.....	.....	"	4	25	"	
York	6	male	May	2	face	slight	dog	+	no	.....	.....	May	6	25	none	
"	4	"	"	3	hand	"	"	+	yes	7 hours	?	"	8	25	"	
Thunder Bay	5	"	"	2	neck	deep	"	+	"	5 "	carbol	"	11	29	"	
York	2	female	"	8	head	slight	cat	+	"	1 "	"	"	15	25	"	
"	12	male	"	3	hand	"	"	+	"	1 "	"	"	15	25	"	
"	67	"	"	20	leg	"	dog	..	no	.....	.....	"	24	25	"	
"	42	female	"	18	forearm	"	"	+	"	.....	.....	"	25	25	"	
"	28	"	"	16	hand	"	"	+	"	.....	.....	"	25	25	"	
"	33	male	June	6	legs	deep	"	..	yes	16 hours	?	June	9	25	"	
Huron	30	"	"	12	hand	slight	cow	+	no	.....	.....	"	19	25	"	
"	24	"	"	17	"	"	dog	+	yes	10 hours	?	"	20	25	"	
York	9	"	"	17	leg	"	cat	+	no	.....	.....	"	26	25	"	
"	6	"	"	17	hand	"	"	+	"	.....	.....	"	26	25	"	
"	4	"	"	17	leg	"	"	+	"	.....	.....	"	26	25	"	
"	5	"	"	15	hand	"	dog	+	yes	1 hour	carbol	"	30	26	"	
"	11	female	Aug.	23	leg	deep	"	+	"	1 "	"	Aug.	23	25	"	
"	5	male	"	23	"	"	"	+	"	1 "	"	"	23	25	"	
"	42	female	"	23	hand	"	"	+	"	1 "	"	"	27	25	"	
Brant	5	"	Sep.	11	"	deep	"	+	no	.....	.....	Sep.	17	25	"	
"	34	"	"	11	"	slight	"	+	"	.....	.....	"	21	25	"	
Middlesex	40	male	Oct.	1	leg	"	"	+	"	.....	.....	Oct.	5	25	"	
Brant	32	"	"	5	hand	deep	"	+	yes	1 hour	nitric	"	12	25	"	
Elgin	62	"	Nov.	15	"	slight	cow	+	"	1 "	?	Nov.	19	25	"	
"	23	"	"	15	"	"	"	+	no	.....	.....	"	19	25	"	
"	15	"	"	15	"	"	"	+	yes	1 hour	?	"	19	25	"	
Oxford	60	"	"	20	"	"	"	+	no	.....	.....	"	27	25	"	
York	10	"	"	20	forearm	"	"	+	"	.....	.....	"	27	25	"	

TABLE SHOWING CASES GIVEN THE PASTEUR FOR TREATMENT—Concluded.

County.	Age.	Sex.	Bitten.	Location of bite.	Character of bite.	Animal injuring.	Rabic or not.	Cauterized.	Hours after.	Caustic.	Began treatment.	Injections given.	Untoward symptoms.	Remarks.
			1912											
York	12	male	Nov. 7	hand	slight	cow	+	no	.....	.....	Dec. 12	25	none	
Oxford	26	"	" 1	"	"	"	+	"	.....	.....	" 5	25	"	
"	20	"	" 1	"	"	"	+	"	.....	.....	" 5	25	"	
"	36	"	" 2	arm	"	"	+	"	.....	.....	" 7	25	"	
"	5	"	" 7	hand	"	"	+	"	.....	.....	" 11	25	"	
York	10	"	" 7	arm	"	"	+	"	.....	.....	" 11	25	"	
"	11	"	" 7	thigh	deep	"	+	"	.....	.....	" 11	25	"	
"	51	"	" 7	hand	"	"	+	"	.....	.....	" 12	25	"	
"	52	"	Dec. 7	"	slight	"	+	"	.....	.....	" 13	25	"	
"	13	"	" 7	arm	deep	cat	?	yes	1 hour	?	" 26	25	"	
"	9	"	" 8	forearm	slight	dog	+	no	.....	.....	" 12	25	"	
Elgin	10	female	" 8	hand	"	"	+	yes	12 hours	carbol	" 12	32	"	
York	26	male	" 7	lip	"	"	+	yes	.....	.....	" 12	25	"	
"	14	"	" 7											

1910..... 73 cases
1911..... 25 " } 167 cases—37 females, 130 males.
1912..... 69 "

Report from Laboratory of Provincial Board of Health of Ontario for the year 1912.

Months.	Diphtheritic Swabs				Tuberculous Sputa		Typhoid Bloods		Pasteur preventive treatment		Rabies diagnosis				Milk								Waters		Liquors for License Department	Doses of typhoid vaccine sent out	Miscellaneous specimens	Total for month	Outfits sent out				
	Release		Diagnosis									Negri bodies			Food content		Preservatives		Bacteriological													
	+	−	+	−	+	−	+	−	Cases	No. of injections	Animal	+	−	Animal inocul'ns	Fats	Total solids	+	−	Tub'rcle Bac. +	Tub'rcle Bac. −	Pus cells +	Pus cells −	Count	Extraneous matter	Chemical	Bacterial				Water	Diphtheria	T.B.	Typhoid	Total
January	9	10	32	83	33	78	2	46	4	87	dogs	7	8	....	18	4	....	....	....	....	....	....	4	....	....	91	30	....	14	560	....	....	....	....	....
February ...	10	3	25	43	9	98	1	16	12	301	"	11	5	....	21	3	....	18	....	....	....	....	6	....	3	63	33	....	2	683	....	....	....	....	....
March	12	8	16	31	21	97	1	31	5	113	"	10	4	....	2	1	....	1	....	....	....	....	2	....	1	69	98	....	3	526	....	....	....	....	....
April	12	15	22	46	13	107	2	37	....	....	"	2	6	....	7	4	....	2	....	....	....	....	7	....	....	89	69	....	3	443	....	....	....	....	....
May	10	20	15	45	25	127	3	31	7	146	1 cat, 15 dogs	7	9	....	8	....	....	4	....	....	....	....	8	....	1	142	42	....	3	653	....	....	...	....	....
June.....	6	8	18	39	21	121	3	43	7	147	.....	....	....	....	8	8	....	....	....	....	....	....	9	....	....	100	33	....	6	577	....	....	....	....	.....
July	7	5	20	44	36	94	10	62	2	.....	dogs	....	9	....	1	10	....	11	....	....	....	....	....	....	2	153	15	....	1	482	....	....	...	....	....
August	5	10	8	33	33	69	27	52	3	63	"	3	1	....	2	....	....	2	....	....	....	....	....	....	....	193	28	....	1	533	....	....	....	....	...
September ..	1	9	5	36	30	64	17	57	3	66	"	4	6	....	1	....	....	1	....	....	....	....	....	....	....	148	23	....	3	474	....	....	....	....	....
October	4	15	14	54	34	80	16	36	2	42	1 horse, 3 dogs	1	3	....	4	....	....	4	....	....	....	....	9	5	....	145	34	....	1	503	227	530	587	563	1,907
November ..	6	12	20	55	42	79	20	28	5	103	1 cow, 5 dogs	4	2	1	4	....	....	5	....	....	....	....	....	....	1	97	21	....	7	512	75	804	675	794	2,348
December ..	10	36	15	105	42	109	10	64	14	315	dogs	3	4	....	....	....	....	....	....	....	....	....	....	....	....	39	....	2	53	821	89	354	185	216	844
	92	151	210	614	339	1,123	112	503	64	1,383	.....	52	57	1	76	30	....	48	....	....	....	....	45	5	8	1,329	426	2	97	6,767	391	1,688	1,447	1,573	5,099

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	Animal inoculations
Algoma—														
Espanola	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Mond	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sault Ste. Marie	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Victoria Mine	....	1	3	....	....	....	....	1	....	....	....	....	....	....
	....	1	3	1	....	1	....	1	....	....	....	....	....	....
Brant—														
Brantford	....	....	....	....	....	1	....	....	1	24	dogs	2	....	....
Purvis	....	....	....	....	....	2	....	....	....	....	....	....	....	....
St. George	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	....	....	....	....	....	4	....	....	1	24	....	2	....	....
Bruce—														
Wiarton	....	....	....	1	....	....	....	....	....	....	....	....	....	....
	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Carleton—														
Kars	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Ottawa	....	....	....	....	....	1	....	4	....	....	....	....	....	....
	....	....	....	....	....	2	....	4	....	....	....	....	....	....
Dufferin—														
Grand Valley	....	....	....	....	....	....	....	....	....	....	dog	1	....	....
Honeywood	....	....	....	1	1	....	....	....	....	....	....	....	....	....
Orangeville	....	....	....	....	....	....	....	1	....	....	....	....	....	....
	....	....	....	1	1	....	....	1	....	....	....	1	....	....
Durham—														
Bethany	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Bowmanville	1	....	1	2	1	2	....	....	....	....	....	....	....	....
Enniskillen	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Millbrook	1	1	....	....	....	....	....	....	....	....	....	....	....	....
Orono	....	1	1	1	....	3	....	....	....	....	....	....	....	....
Pontypool	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	2	2	2	3	1	9	....	....	....	....	....	....	....	....
Elgin—														
St. Thomas	....	....	....	....	....	....	....	....	3	63	dogs	....	3	....
West Lorne	....	....	....	1	....	....	....	....	....	....	....	....	....	....
	....	....	....	1	....	....	....	....	3	63	....	....	3	....
Essex—														
Essex	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Kingsville	....	....	....	1	....	1	....	....	....	....	....	....	....	....
Springville	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Sutherland	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Windsor	....	....	....	....	2	1	....	2	....	....	....	....	....	....
	....	....	....	3	2	3	....	2	....	....	....	....	....	....
Grey—														
Dundalk	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Durham	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Hanover	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Markdale	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Maxwell	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Meaford	....	....	....	....	1	....	....	....	....	....	....	....	....	....

of Health for month of January, 1912.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	Animal inoculations
Grey, cont.—														
Owen Sound				1	1									
Priceville					1									
Rocklyn				3										
Shallow Lake					1									
			1	5	4	1								
Halton—														
Georgetown			1	3	1	1								
Milton						1								
Oakville		1	2	2										
Palermo				2										
		1	3	7	1	2								
Haldimand—														
Fisherville				1										
				1										
Hastings—														
Belleville														
Coe Hill								1						
Madoc					1									
Marmora						2		3						
Maynooth						1								
Springbrook						2								
					1	5		4						
Huron—														
Brucefield			1	1										
Ethel								2						
Gooderich				1		1		1			dog		1	
Wingham					1									
Zurich														
			1	2	1	1		3					1	
Kent—														
Chatham						4								
Merlin														
						4								
Lambton—														
Oil Springs														
Sarnia														
Wyoming								1						
								1						
Lanark—														
Almonte						1								
						1								
Lincoln—														
St. Catharines				1	2	3								
				1	2	3								
Middlesex—														
Glencoe				1										
London						1								

of Health for month of January, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Middlesex—Continued														
Coe Hill	....	....	....	....	1	....	....	....	....	....	....	....	....	....
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Muskoka—														
Bracebridge	....	....	1	2	....	....	....	1	....	....	....	....	....	....
Huntsville	....	....	....	1	....	1	....	....	....	....	....	....	....	....
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Nipissing—														
Cobalt	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Haileyburg	....	....	....	....	....	....	....	....	....	....	....	....	....	....
North Bay	....	....	....	1	....	2	....	....	....	....	....	....	....	....
Sudbury	....	....	....	2	....	1	....	....	....	....	....	....	....	....
Simmins	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Norfolk—														
Delhi	....	....	....	2	....	....	....	....	....	....	....	....	....	....
Simcoe	....	....	....	....	....	1	....	....	....	....	....	....	....	....
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Northumberland—														
Bailieboro'	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cobourg	....	....	....	....	....	1	....	2	....	....	....	....	....	....
Colborne	....	....	1	1	1	....	....	1	....	....	....	....	....	....
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Ontario—														
Oshawa	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Uxbridge	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Oxford—														
Burgessville	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ingersoll	....	....	1	1	....	....	....	....	....	....	....	....	....	....
Princeton	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Tavistock	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Woodstock	....	....	....	1	3	....	....	1	....	....	....	....	....	....
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Parry Sound—														
Burk's Falls	....	....	....	....	....	....	....	4	....	....	....	....	....	....
Sundridge	....	....	....	1	....	1	....	....	....	....	....	....	....	....
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Peel—														
Palgrave	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Mono Road	....	....	....	1	1	....	....	1	....	....	....	....	....	....
	....	....	....	2	1	....	....	1	....	....	....	....	....	....
Prince Edward—														
Picton	....	....	....	1	....	....	....	....	....	....	....	....	....	....
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Perth—														
Atwood	....	....	....	....	....	1	....	....	....	....	....	....	....	....

of Health for month of January, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.	Bacteriological.						Extraneous matter.							Water.	Diphtheria.	T.B.	Typhoid.	Total.
Fats.	Total Solids.			Tubercle Bac.		Pus cells.		Count.		Chemical.	Bacterial.									
		+	—	+	—	+	—													
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	Animal inoculations
Perth—Continued.														
Listowel	....	....	....	....	....	....	1	1	....	....	....	....	....	....
Monkton	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Stratford	....	....	....	1	....	....	....	2	....	....	....	....	....	....
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Peterborough—														
Havelock	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Hastings	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Peterborough	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Prescott—														
Vankleek Hill	....	....	....	....	....	1	....	....	....	....	....	....	....	....
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Renfrew—														
Renfrew	....	....	....	....	1	....	....	....	....	....	....	....	....	....
	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Russell—														
The Brook	....	....	1	4	....	....	....	....	....	....	....	....	....	....
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Storment—														
Crysler	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Osnabruck Centre	....	....	....	....	....	1	....	....	....	....	....	....	....	....
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Simcoe—														
Barrie	....	....	....	....	1	1	....	1	....	....	....	....	....	....
Coldwater	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Collingwood	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Creemore	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Midland	....	....	....	....	....	2	....	2	....	....	....	....	....	....
Phelpston	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Stayner	....	....	1	1	....	1	....	....	....	....	....	....	....	....
Victoria Harbour	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Orillia	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Thunder Bay—														
Fort William	....	....	....	....	....	....	....	....	....	....	dog	2	2	....
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Victoria—														
Fenelon Falls	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Lindsay	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Oakwood	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Waterloo—														
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Berlin	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Galt	....	....	....	....	2	1	....	1	....	....	....	....	....	....
New Hamburg	....	....	....	....	....	1	....	1	....	....	....	....	....	....
Waterloo	....	....	....	....	....	2	....	1	....	....	....	....	....	....

of Health for month of January, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
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				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.									
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	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Waterloo—Continued.														
Wellesley	....	....	1	....	....	....	....	....	....	....	....	....	....	....
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Welland—														
Bridgeburg	....	....	..	....	....	1	....	....	....	....	....	....	....	....
Fonthill	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Fort Erie	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Niagara Falls	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Port Colborne	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Stevensville	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Welland	....	....	....	1	....	....	....	....	....	....	....	....	....	....
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Wellington—														
Belwood	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Glen Allan	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Harriston	....	....	....	....	1	1	....	....	....	....	....	....	....	....
Guelph	....	....	....	....	1	1	....	....	....	....	....	....	....	....
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Wentworth—														
Hamilton	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sheffield	....	....	....	2	....	....	....	....	....	....	....	....	....	....
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York—														
Aurora	4	2	....	....	....	2	....	....	....	....	....	....	....	....
Eglinton	....	....	....	2	....	....	....	....	....	....	....	....	....	....
King	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Markham	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Mimico	1	....	8	14	....	....	....	....	....	....	....	....	....	....
Richmond Hill	....	2	....	1	....	....	....	....	....	....	....	....	....	....
Schomberg	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Swansea	1	2	2	....	2	....	1	....	....	....	....	....	....	....
Mt. Albert	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Toronto	1	....	....	....	1	4	....	2	....	....	4 dog	2	2	....
Unionville	....	....	1	1	....	....	....	....	....	....	....	....	....	....
Woodbridge	....	....	....	....	....	....	....	2	....	....	....	....	....	....
Weston	....	....	4	8	....	....	....	....	....	....	....	....	....	....
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of Health for month of January, 1912.—Concluded.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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4	4	...	...	...	...	...	...	4	...	...	4	30	...	...	...	...	...	...	...	...
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Algoma—														
Espanola	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Sault Ste. Marie	....	....	....	....	....	4	....	....	....	....	....	....	....	....
Victoria Mine	....	....	1	1	....	....	....	1	....	....	....	....	....	....
	....	....	1	1	....	5	....	1	....	....	....	....	....	....
Brant—														
Burford	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Bruce—														
Allenford	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Hepworth	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Lucknow	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Ripley	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Tara	....	....	1	3	1	....	....	....	....	....	....	....	....	....
Walkerton	....	....	....	....	....	1	....	....	....	....	....	....	....	....
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Carleton—														
Ottawa	....	....	....	....	2	1	....	2	....	....	....	....	....	....
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Dufferin—														
Orangeville	1	....	....	....	....	1	....	....	....	....	....	....	....	....
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Durham—														
Bowmanville	....	....	1	1	....	....	....	1	....	....	....	....	....	....
Millbrook	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Orono	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Pontypool	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Port Hope	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Elgin—														
Rodney	....	....	1	1	....	....	....	....	....	....	....	....	....	....
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Essex—														
Comber	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Essex	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Windsor	....	....	....	....	1	3	....	1	....	....	....	....	....	....
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Grey—														
Dundalk	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Owen Sound	....	....	....	....	....	4	....	....	....	....	....	....	....	....
Priceville	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Rocklyn	....	....	....	....	....	1	....	....	....	....	....	....	....	....
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Halton—														
Georgetown	1	1	....	3	....	1	....	....	....	....	....	....	....	....
Oakville	2	....	5	7	....	....	....	....	....	....	....	....	....	....
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of Health for month of February, 1912.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
															8					
															1					
															10					
															5					
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3			3					3			4									
3			3					3			4				20					
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies		Animal inoculations
												+	−	
Hastings—														
Eldorado						2								
Madoc						1								
Maynooth						1								
Thedford						1								
						5								
Haldimand—														
Dunnville						1								
						1								
Huron—														
Brucefield	2	2									dog		1	
Clinton					1									
Exeter						1								
Fordwich											dog		1	
Goderich								1						
Zurich								4						
	2	2			1	1		5					2	
Kent														
Blenheim						1								
Chatham						3								
Harwich	1													
Merlin														
Thamesville						1								
Wallaceburg					1	1								
	1				1	6								
Lambton														
Camlachie						1								
Cartwright														
Oil Springs						1								
Petrolia				1										
Sarnia			1	1										
			1	2		2								
Lanark														
Perth				1		1								
				1		1								
Leeds and Grenville														
Cardinal								1						
								1						
Lincoln														
Beamsville						1								
Caistorville						1								
St. Catharines														
Smithville			1											
			1			2								
Middlesex														
Ailsa Craig						2								
Arva														
Granton						1								
London														

of Health for month of February, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Middlesex—Continued.														
Strathroy						1								
						4								
Muskoka														
Huntsville				1										
				1										
Nipissing—														
Haileybury											2dogs	1	1	
New Liskeard						1								
Porcupine														
Selwood			1											
			1			1						1	1	
Norfolk—														
Simcoe				1										
				1										
Northumberland—														
Campbellford						1								
Cobourg						3								
Colborne						3								
						7								
Ontario—														
Beaverton				1										
Oshawa				1										
				2										
Oxford—														
Burgessville						1								
Ingersoll											dog		1	
Plattsville						2								
Princeton				1										
Woodstock						1		1						
				1		4		1					1	
Parry Sound—														
Burk's Falls						2								
Parry Sound						2								
Sprucedale						1								
						5								
Peel—														
Alton				1										
Mono Road						3								
Palgrave						1								
Port Credit									3	69	dog	1		
				1		4			3	69		1		
Peterborough—														
Peterborough						2								
						2								
Perth														
St. Mary's						1								

of Health for month of February, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Perth—Continued.														
Sebringville	....	....	2	....	....	....	....	....	....	....	....	....	....	....
Stratford	....	....	....	....	....	3	1	2	2	44	dog	1	....	....
	....	....	2	....	....	4	1	2	2	44	....	1	....	....
Rainy River—														
Dryden	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Emo	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Keewatin	....	....	....	....	....	1	....	....	....	....	....	....	....	....
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Renfrew—														
Pembroke	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Renfrew	....	....	....	....	....	2	....	....	....	....	....	....	....	....
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Prescott and Russell—														
Hawkesbury	....	....	....	....	....	....	....	2	....	....	....	....	....	....
Russell	....	....	2	2	....	....	....	....	....	....	....	....	....	....
Bourget	....	....	3	2	....	....	....	....	....	....	....	....	....	....
	....	....	5	4	....	....	....	2	....	....	....	....	....	....
Stormont, Dundas, and Glengarry—														
Lancaster	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Maxville	....	....	....	....	....	1	....	....	....	....	....	....	....	....
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Simcoe—														
Alliston	....	....	....	....	....	....	....	....	1	18	dog	....	1	....
Angus	....	....	....	....	1	1	....	....	....	....	....	....	....	....
Barrie	....	....	....	....	1	1	....	....	....	....	....	....	....	....
Collingwood	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Creemore	....	....	....	2	....	....	....	....	....	....	....	....	....	....
Midland	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Orillia	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Strand	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Thornton	....	....	....	....	....	....	....	....	....	....	dog	1	....	....
	....	....	....	2	2	5	....	....	1	18	....	1	1	....
Thunder Bay—														
Ft. William	....	....	....	....	....	....	....	....	2	39	dog	1	....	....
Port Arthur	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	....	....	....	....	....	1	....	....	2	39		1	....	....
Victoria—														
Bobcaygeon	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Lindsay	....	....	....	....	1	....	....	....	....	....	....	....	....	....
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Waterloo—														
Berlin	....	....	....	....	....	4	....	....	....	....	....	....	....	....
Galt	....	....	....	....	....	4	....	....	....	....	....	....	....	....
Hespeler	....	....	....	....	....	....	....	....	....	....	dog	1	....	....
New Hamburg	1	1	....	....	....	2	....	....	....	....	....	....	....	....
Wellesley	....	....	....	1	....	....	....	....	....	....	....	....	....	....
	1	1	....	1	....	10	....	....	....	....	....	1	....	....

of Health for month of February, 1912.—Continued.

Milk										Waters.		Liquors for License Dept	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimen	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	Animal inoculations
Welland—														
Niagara Falls	1		1	4										
Thorold					1									
	1		1	4	1									
Wellington—														
Drayton						1								
Guelph								3			2dogs		2	
Mt. Forest				1	1									
				1	1	1		3					2	
York—														
Eglinton	2					1								
Mimico			3	10										
Richmond Hill						1								
Swansea					1	1								
Toronto	1		1			3			6	170	dogs	7		
Unionville						1								
Weston				1		3								
	3		4	11	1	10			6	170		7		

Report from Laboratory of Provincial Board

Algoma—														
Sault Ste. Marie					1	2								
Thessalon								3						
Victoria Mines				1										
				1	1	2		3						
Bruce—														
Ripley						1								
Tara				1										
Wiarton			1											
			1	1		1								
Carleton—														
Ottawa						1								
						1								
Dufferin—														
Orangeville		1				1								
Rosemont				1										
		1		1		1								
Durham—														
Bowmanville	2	1		1		1								
Orono				1										
Pontypool						2								
Port Hope														
	2	1		2		3								
Elgin—														
Rodney				1										
St. Thomas											dog	1		
				1								1		

of Health for month of February, 1912.—Concluded.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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of Health for month of March, 1912.

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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tubercolous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Essex—														
Comber					1									
Essex					1		2							
Kingsville							1		2					
Pelee Island						1								
					2	1	3		2					
Grey—														
Annan					1		1							
Durham							1							
Holstein						1	1							
Maxwell							1							
Owen Sound							3							
					1	1	7							
Haldimand—														
Dunnville							2							
Jarvis		1												
		1					2							
Halton—														
Oakville	2	1	1	3										
Milton												dog	1	
Palermo			1											
	2	1	2	3									1	
Hastings—														
Maynooth Station														
							1							
Huron—														
Brussels									2					
Exeter							1							
Fordwich											2dogs	1	1	
Londesboro'							1							
Goderich									1					
Wingham														
Zurich							1							
							3		3			1	1	
Kent—														
Blenheim					1		1							
Dresden							3							
Chatham					1		5		3					
Thamesville						1								
Wallaceburg							1							
					1	2	10		3					
Lambton—														
Camlachie							1							
Sarnia					1									
					1		1							
Lanark—														
Almonte							1							
Pakenham							1							
Perth							1							
							3							

of Health for month of March, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.							Water.	Diphtheria.	T.B.	Typhoid.	Total.
Fats.	Total Solids.	+	−	Tubercle Bac. +	Tubercle Bac. −	Pus cells. +	Pus cells. −	Count.		Chemical.	Bacterial.									
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tubercolous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	Animal inoculations
Lincoln—														
St. Catharines														
Middlesex—														
London														
Mount Brydges											dog	1		
Parkhill					1									
					1							1		
Muskoka														
Bala				1										
Bracebridge				1										
Huntsville						3		1						
				2		3		1						
Nipissing—														
Cobalt														
Haileybury														
North Bay						1								
Porcupine														
Silver Centre														
Whitney						1								
						2								
Norfolk—														
St. Williams						1								
Waterford						2								
						3								
Northumberland—														
Brighton					1									
Colborne		1												
Campbellford				1										
Cold Springs						1								
Grafton			1											
		1	1	1	1	1								
Ontario—														
Brooklin						1								
Cannington					2									
Oshawa					1									
					3	1								
Oxford—														
Beachville						1								
Ingersoll								1						
Plattsville					1	1								
Princeton					1									
Tavistock						1								
Tillsonburg						2								
Woodstock					1	2		4						
					3	7		5						
Parry Sound—														
Burk's Falls				1										
Parry Sound						1	1	1						

of Health for month of March, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	—	+	—	+	—	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	Animal inoculations
Parry Sound--Continued.														
Powassan				1		1								
Sundridge						1								
Sprucedale						1		1						
				2		4	1	2						
Peterborough—														
Peterborough						1								
						1								
Peel—														
Alton					1									
Brampton			1											
Caledon E.	2	1	2											
Mono Road		1												
	2	2	3		1									
Perth—														
Atwood					1									
Stratford						1		1			dog	1		
West Monkton		1	1											
		1	1		1	1		1				1		
Prince Edward—														
Picton						2								
						2								
Rainy River—														
Rainy River						1								
						1								
Renfrew—														
Renfrew						3								
						3								
Russell—														
Bourget	6		2	2		2								
	6		2	2		2								
Simcoe—														
Anten Mills											dog		1	
Barrie								1	1	27	dog	1		
Collingwood						1								
Cookstown						1								
Creemore								1						
Elmsvale						1								
Everett						1								
Midland					1	1		1						
Stayner						1								
Stroud						1								
Waubaushene					1									
					2	7		3	1	27		1	1	
Stormont—														
Crysler					1									
Osnabruck Centre						1								
					1	1								

of Health for the month of March, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
															9					
															1					
															8					
															6					
															2					
															1					
															3					
															12					
											1									
											1									
											2				44					
															2					

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Thunder Bay														
Port Arthur								2						
								2						
Victoria														
Kinmount						1								
Lindsay						4								
						5								
Waterloo														
Ayr				1		1								
Hespeler			1	1	1									
Waterloo					1	2								
			1	2	2	3								
Welland														
Fenwick						2								
Fort Erie						1								
Niagara Falls								1						
						3		1						
Wellington														
Alma						1								
Elora						1								
Belwood						3								
Guelph				1				2			dog	1		
Harriston								1						
Palmerston				1				1						
				2		5		4				1		
Wentworth														
Freelton						1								
						1								
York														
Eglinton														
Maple			1											
Markham					1									
Mimico			4	6		1								
Richmond Hill								1	1	23	dog	1		
Toronto									3	63	4 dogs	2	2	
			5	6	1			1	4	86		3	2	

of Health for month of March, 1912.—Concluded.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	—	+	—	+	—	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Algoma—														
Espanola														
Massey				1										
Mond														
Sault Ste. Marie						2								
Victoria Mine				1										
				2		2								
Bruce—														
Chesley						1								
Lucknow						1								
Port Elgin						1								
Tara			1											
Tiverton							1							
			1			3	1							
Carleton—														
Ottawa						1		1						
						1		1						
Dufferin—														
Orangeville			1	2										
			1	2										
Durham—														
Bethany								1						
Bowmanville						2								
Orono														
Pontypool						1								
Port Hope														
						3		1						
Elgin—														
Port Stanley				1										
				1										
Essex—														
Amherstburg						1								
Belle River						1								
Essex						5								
Kingsville								1						
McGregor						2								
Windsor								1						
						9		2						
Grey—														
Annan						1								
Dundalk						1								
Durham						1								
Owen Sound			1			1		1			dog		1	
Rocklyn					1									
Shallow Lake						4								
			1		1	8		1					1	
Halton—														
Burlington				2										
Georgetown				2		2								

of Health for month of April, 1912.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.												Water.	Diphtheria.	T.B.	Typhoid.	Total.
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.									
											1									
											1									
											2				6					
															5					
											1									
											1				3					
															3					
											1									
											14									
											15				19					
															1					
											3									
											3				14					
															12					
														1						

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs: Release +	Diphtheritic swabs: Release −	Diphtheritic swabs: Diagnosis +	Diphtheritic swabs: Diagnosis −	Tuberculous sputa +	Tuberculous sputa −	Typhoid bloods +	Typhoid bloods −	Pasteur preventive treatment: Cases	Pasteur preventive treatment: Number of injections	Rabies diagnosis: Animal	Rabies diagnosis: Negri bodies +	Rabies diagnosis: Negri bodies −	Rabies diagnosis: Animal inoculations
Halton—Continued														
Oakville			1											
			1	4		2								
Haldimand—														
Dunnville						1		2						
Jarvis		1												
		1				1		2						
Haliburton—														
Gelert														
Minden														
Hastings—														
Belleville														
Marmora						1								
						1								
Huron—														
Brussels								1						
Goderich														
Seaforth							1							
							1	1						
Kent—														
Chatham					1	2		3						
Dresden						3								
Glenwood														
Merlin						1								
Ridgetown						1								
Thamesville						1								
Tilbury														
Wallaceburg						1		1						
Wheatley						1								
					1	10		4						
Lanark—														
Allenford			1											
Almonte						1								
Pakenham						1								
			1			2								
Lambton—														
Alvinston						1								
New Dundee						1								
Oil Springs								1						
Sarnia				1										
Arkona														
				1		3		1						
Lincoln—														
Abingdon														
Merriton						1								
Niagara-on-the-Lake														
St. Catharines					1	1		1						
					1	2		1						

of Health for month of April, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	—	+	—	+	—	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Middlesex—														
Appin					1	1								
Glencoe														
London								1						
Parkhill						2								
					1	3		1						
Muskoka—														
Huntsville						2								
						2								
Nipissing—														
Cobalt														
New Liskeard						1								
Porcupine														
Sudbury						1								
Mond														
						2								
Norfolk—														
Port Dover						1								
Waterford						2								
Simcoe						1								
						4								
Northumberland—														
Brighton						1								
Cobourg								1						
Colborne					1									
Castleton					1									
Grafton					1	1								
					3	2		1						
Ontario—														
Saintfield						1								
Sunderland					1									
Sundridge			1			1								
Port Perry						1								
			1		1	3								
Oxford—														
Ingersoll				1				1						
Otterville						1								
Plattsville						1								
Princeton				1										
Woodstock					1	4								
				2	1	6		1						
Parry Sound—														
Burk's Falls						1								
McKellar						1								
Powassan						3								
South River								1						
Sprucedale						1								
Parry Sound								1						
						6		2						

of Health for month of April, 1912.—Continued.

Milk										Waters.							Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																	
				Tubercle Bac.		Pus cells.															
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.	Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Peterboro—														
Lakefield														
Peterboro						1		3						
						1		3						
Peel—														
Brampton		1												
Mono Road				1										
Streetsville			1											
		1	1	1										
Perth—														
Atwood						1								
Listowel					1	1								
Milverton						1								
Motherwell											dog		1	
St. Mary's						1								
Stratford						1								
Sebringville														
					1	6							1	
Prince Edward—														
Picton														
Renfrew—														
Pembroke														
Renfrew						1								
						1								
Russell—														
Bourget	1	2		3		1								
	1	2		3		1								
Simcoe—														
Angus						1								
Barrie								6						
Collingwood														
Cookstown						1								
Everett						1								
Midland					1									
Orillia														
Phelpston				1										
Stayner				1										
Waubaushene				1										
				3	1	3		6						
Thunder Bay—														
Fort William											dog		1	
													1	
Victoria—														
Lindsay						3								
						3								

of Health for month of April, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
Fats.	Total Solids.	+	−	Tubercle Bac. +	Tubercle Bac. −	Pus cells. +	Pus cells. −	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
														1						
														1	5					
															3					
														1						
														1	9					
											2									
											2				2					
											6									
										6					7					
															7					
											1									
			1																	
			1								1				15					
															1					
															3					

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tubercolous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Waterloo—														
Elmira						1								
Hespeler	3	3												
New Dundee						1								
New Hamburg	1		1	1										
Waterloo		1												
	4	4	1	1		2								
Wellington—														
Belwood						1								
Elora						1								
Erin						1								
Drayton						1								
Guelph								1						
Harriston						1								
Hillsburg					2									
Morriston											dog		1	
Mt. Forest						1								
Palmerston						1					dog		1	
Rockwood						1		2						
					2	8		3					2	
Welland—														
Fenwick						2		1						
Fort Erie						1								
Niagara Falls						1		1						
Thorold						1								
Welland														
						5		2						
Wentworth—														
Dundas														
York—														
Aurora						1								
Mimico			4	9										
Roches Pt.														
Toronto	2							2			3 dog	2	1	
Swansea		1	1											
Sutton West						1								
Weston	5	6	9	17				2						
	7	7	14	26		2		4				2	1	

of Health for month of April, 1912.—Concluded.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	—	+	—	+	—	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	Animal inoculations
Algoma—														
Chelmsford						1								
Cobalt			1											
Massey				1										
Thessalon						1								
Sault Ste. Marie						1								
			1	1		3								
Bruce—														
Allenford	3			1		1								
Tara						1								
Tiverton							2							
	3			1		2	2							
Dufferin—														
Grand Valley									1	21	dogs		2	
Orangeville						2								
Sherwood									1	21				
						2			2	42			2	
Durham—														
Bowmanville								1						
Millbrook				1										
Pontypool						1								
Orono		1				1								
Port Hope						1								
		1		1		3		1						
Essex—														
Essex						5								
Kingsville						1								
Leamington						1								
McGregor					1									
Windsor						4								
					1	11								
Grey—														
Annan					1	2								
Dundalk					1	1								
Durham								1						
Flesherton				1										
Maxwell						1								
Owen Sound	2	5			1	1								
Shallow Lake				2		2								
	2	5		3	3	7		1						
Haldimand—														
Caledonia														
Dunnville								1						
Hagersville														
Jarvis				1										
				1				1						
Halton—														
Georgetown						2		1						
Milton						1								
Oakville		4	1	3		1								

of Health for month of May, 1912.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
															5					
															8					
															48					
4			4					4			26									
4			4					4			26				44					
															12					
															21					
											2									
											1									
											1									
											4				6					
														2						

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tubercu-lous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		Animal inoculations
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	
Halton—Continued														
Palermo														
		4	1	3		4		1						
Hastings—														
Marmora														
Maynooth				1										
Trenton						2								
				1		2								
Huron—														
Brussels					1									
Dashwood					1									
Goderich				1				1						
Landesboro						1								
				1	2	1		1						
Kent—														
Chatham					1	3								
Dresden						1								
Duart						1								
Merlin						1								
Ridgetown						1								
Wheatley					1									
					2	7								
Lambton—														
Camlachie						2								
Petrolia					1	1								
Oil Springs					1	2								
Sarnia		1		2										
Watford								2						
		1		2	2	5		2						
Lanark—														
Camlachie														
Carleton Place														
Pakenham						1								
						1								
Lincoln—														
Niagara-on-the-Lake														
St. Catharines					2	2								
					2	2								
Middlesex—														
London														
Lucan					1									
Mt. Brydges				1										
Strathroy				1										
				2	1									
Muskoka—														
Bracebridge	1	1	1		1		1							
Huntsville						3								
	1	1	1		1	3	1							

of Health for month of May, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		Animal inoculations
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	
Nipissing—														
Haileybury														
New Liskeard						1								
North Bay						1								
Pt. McNicoll				1										
Sudbury								1						
Swastika				1										
Timmins														
Verner						1								
				2		3		1						
Norfolk—														
Port Dover						2								
Port Rowan						1								
Waterford					1									
					1	3								
Northumberland—														
Brighton								3						
Campbellford											dog		1	
Cobourg				1		4								
Colborne					1			4						
Coldsprings														
Port Hope														
				1	1	4		7					1	
Ontario—														
Pickering														
Port Perry				2		1								
Saintfield						1		1						
Whitby		2						1						
		2		2		2		2						
Oxford—														
Burgessville						2								
Culloden								1						
Drumbo														
Ingersoll						2								
Plattsville						2								
Tillsonburg						2		2						
Woodstock				1	1	5		2						
				1	1	13		5						
Parry Sound—														
Burk's Falls				1	1									
Depot Harbor				1										
Dunchurch								1						
Sundridge						1								
Parry Sound								1			dog		1	
				2	1	1		2					1	
Peel—														
Brampton						1								
Caledon E.				1										
Port Credit											dog		2	
				1		1							2	

of Health for month of May, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
											1									
											5									
											4									
											10				16					
															4					
														1						
											1									
											1			1	16					
											1									
											1				9					
											4									
											4				24					
											24									
											24				31					
															4					

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Perth—														
Listowel							2							
Monkton							1							
St. Mary's							1							
Stratford							3							
							7							
Peterboro—														
Peterboro							1							
							1							
Prince Edward—														
Picton							1							
							1							
Renfrew—														
Eganville							2							
Renfrew							2							
							4							
Russell—														
Bourget			2	2			1							
			2	2			1							
Simcoe—														
Barrie														
Collingwood			1	2	2									
Cookstown							1							
Midland					1		2							
Orillia									1					
Stayner							2							
			1	2	3		5		1					
Thunder Bay—														
Port Arthur							1			1	21	dog	1	
							1			1	21		1	
Victoria—														
Bobcaygeon							1							
Lindsay							1							
							2							
Welland—														
Fenwick							1							
Niagara Falls														
Pt. Colborne							1							
Ridgeway							1							
							3							
Waterloo—														
Ayr			1	1			2		1					
Berlin														
Galt							2							
Hespeler							3							
New Hamburg									1					
Preston			1	1					1					
Waterloo				1										

of Health, for month of May, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.	Bacteriological.																	
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
	[illegible]																			
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Waterloo—Continued														
Wellesley								2						
			2	3		7		5						
Wellington—														
Arthur														
Erin						1								
Forest						1								
Drayton						4								
Guelph						1								
Mt. Forest						1								
Palmerston					1									
					1	8								
York—														
Aurora						2								
King					1									
Lambton Mills						2								
Markham					1	1								
Mimico			6	9							dog		1	
Mt. Dennis									2	39	cat	1		
Schomberg				1							dog	1		
Sutton West														
Swansea	1	3	1	3										
Stouffville						1								
Toronto					1			1	1	21	dog	4	2	
Weston	3	3							1	23				
York Mills														
	4	6	7	13	3	6		1	4	83		6	3	
Elgin—														
Rodney						1								
						1								
Total														

of Health for month of May, 1912.—Concluded.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.							Water.	Diphtheria.	T.B.	Typhoid.	Total.
Fats.	Total Solids.	+	—	Tubercle Bac. +	Tubercle Bac. —	Pus cells. +	Pus cells. —	Count.		Chemical.	Bacterial.									
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	Animal inoculations
Algoma—														
Blind River						1								
Manitowaning						1								
Thessalon					2			1						
					2	2		1						
Brant—														
Brantford														
Paris						1								
						1								
Bruce—														
Chesley						1								
Kinloss						1								
Paisley						1								
Tara						1								
Walkerton						1								
						5								
Carleton—														
Kars					1									
Ottawa						3								
					1	3								
Durham—														
Bethany						1								
Bowmanville						2								
Newcastle														
Pontypool						1								
Port Hope														
						4								
Dufferin—														
Orangeville	2	1												
Shelburne						1								
	2	1				1								
Elgin—														
Aylmer														
Shedden						1								
						1								
Essex—														
Essex				1	1									
McGregor						1								
Walkerville		1												
Windsor					1	3								
		1		1	2	4								
Grey—														
Annan			1											
Dromore						1								
Holstein				1										
Owen Sound		1			1	3		1						
		1	1	1	1	4		1						

of Health for month of June, 1912.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.							Water.	Diphtheria.	T.B.	Typhoid.	Total.
Fats.	Total Solids.	+	−	Tubercle Bac. +	Tubercle Bac. −	Pus cells. +	Pus cells. −	Count.		Chemical.	Bacterial.									
											1									
											1				6					
											5									
											5				6					
															5					
														1						
														1	5					
											1									
											1									
											7									
											9				13					
															4					
											1									
											1				2					
															8					
															9					

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Grenville—														
Cardinal						1		1						
						1		1						
Haldimand—														
Dunnville						1		1						
						1		1						
Haliburton—														
Haliburton						2								
						2								
Halton—														
Georgetown	1		1	2		2								
Oakville				1		2								
	1		1	3		4								
Hastings—														
Belleville						1								
						1								
Huron—														
Brucefield			1											
Brussels						1								
Dashwood					1									
Fenwick						1		2						
Goderich								1	2	42				
Kintail					1									
Wingham						1								
Zurich						1								
			1		2	4		3	2	42				
Kent—														
Blenheim						1								
Chatham						2	1	1						
Dresden						1								
Ridgetown					1									
					1	4	1	1						
Lambton—														
Camlachie														
Sarnia					1	1								
Sombra			1											
Watford						2								
			1		1	3								
Lanark—														
Pakenham						2								
Perth								1						
						2		1						
Lincoln—														
Jordan						1								
St. Catharines						6		2						
Smithville						2								
						9		2						

of Health for month of June. 1912.—Continued,

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
															2					
															2					
															2					
															9					
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies		Animal inoculations
												+	−	
Middlesex—														
Ailsa Craig	....	....	....	....	....	2	....	....	....	....	....	....	....	....
London	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Muskoka—														
Bracebridge	....	....	....	2	....	....	....	....	....	....	....	....	....	....
Dwight	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Huntsville	....	....	1	....	....	2	....	....	....	....	....	....	....	....
Gravenhurst	....	....	....	....	....	....	....	1	....	....	....	....	....	....
	....	....	1	2	....	2	....	1	....	....	....	....	....	....
Northumberland—														
Brighton	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cobourg	....	....	....	....	1	....	....	....	....	....	....	....	....	....
	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Norfolk—														
Langton	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Port Dover	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Waterford	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	....	....	....	....	1	3	....	....	....	....	....	....	....	....
Nipissing—														
Cobalt	....	....	....	....	....	....	....	....	....	....	....	....	....	....
North Bay	....	....	....	....	....	1	....	1	....	....	....	....	....	....
Selward	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sudbury	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Timmins	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Ontario—														
Ashburn	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cannington	....	....	....	2	....	....	....	....	....	....	....	....	....	....
Port Perry	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Saintfield	....	....	....	....	....	....	....	1	....	....	....	....	....	....
	....	....	....	2	....	2	....	1	....	....	....	....	....	....
Oxford—														
Burgessville	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Drumbo	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Embro	....	....	....	....	1	2	....	....	....	....	....	....	....	....
Ingersoll	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Thamesford	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tillsonburg	....	....	....	....	1	2	....	1	....	....	....	....	....	....
Plattsville	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Woodstock	....	....	....	....	2	4	....	3	....	....	....	....	....	....
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Parry Sound—														
Burk's Falls	....	1	....	....	....	1	....	....	....	....	....	....	....	....
Depot Harbor	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sprucedale	....	....	....	....	....	1	....	....	....	....	....	....	....	....
South River	....	....	3	3	....	....	....	1	....	....	....	....	....	....
Sundridge	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Powassan	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	....	1	3	3	....	5	....	1	....	....	....	....	....	....

of Health for month of June, 1912.—Continued.

Milk										Waters.		Licenses for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
Fats.	Total Solids.	+	—	Tubercle Bac. +	Tubercle Bac. —	Pus cells. +	Pus cells. —	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	Animal inoculations
Peel—														
Mono Road				1										
Streetsville			1											
			1	1										
Peterboro—														
Keene														
Peterboro						2	1	1						
						2	1	1						
Perth—														
Kirkton														
Listowel														
St. Mary's						2								
Stratford						1								
						3								
Prescott—														
Vankleek Hill								1						
								1						
Rainy River—														
Emo						1								
Fort Frances						1								
Kenora														
						2								
Russell—														
Bourget	2	4	2	4		3								
	2	4	2	4		3								
Simcoe—														
Angus						2								
Barrie						2								
Beeton			2	1										
Collingwood					1									
Cookstown			1			1								
Midland						1		1						
Orillia														
Stayner				2										
			3	3	1	6		1						
Thunder Bay—														
Port Arthur								1						
Schreiber														
								1						
Victoria—														
Bobcaygeon						1								
Kinmount						1								
Lindsay					1	1		1						
Little Britain														
					1	3		1						
Waterloo—														
Berlin														
Linwood														

of Health for month of June, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
Fats.	Total Solids.	+	−	Tubercle Bac. +	Tubercle Bac. −	Pus cells. +	Pus cells. −	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
															2					
											1									
											1				5					
											1									
											1									
											2				5					
															1					
											2									
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											4									
											4				18					
														1						
														1	2					
											1									
											1				6					
														3						
											2									

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Waterloo—Continued.														
Galt							2							
New Hamburg				2	1			1						
				2	1	2	1							
Welland—														
Bridgeburg						2								
Marshville						2		1						
Stevensville						1								
Thorold				1				1						
Ridgeway				1										
Welland				1		1		12						
				3		6		14						
Wellington—														
Belwood								1						
Conn						1								
Elora						1								
Glen Allan														
Guelph						1		1						
Harriston						1								
Mount Forest					1	2								
Palmerston						1								
					1	7		2						
Wentworth—														
Ancaster								1						
								1						
York—														
King				1					3	63				
Aurora						1								
Eglinton				1		1								
Keswick														
Markham				1										
Mimico			3	9										
Sutton West						1								
Swansea	1		1	1										
Toronto				1					2	42				
Weston								1						
Richmond Hill						1								
	1		4	14		4		1	5	105				

of Health for month of June, 1912,—Concluded,

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
Fats.	Total Solids.	+	−	Tubercle Bac. +	Tubercle Bac. −	Pus cells. +	Pus cells. −	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Algoma—														
Chapleau			2	1										
Cutler														
Richard's Landing						1								
Sault Ste. Marie					1	2								
Victoria Mines					1									
			2	1	2	3								
Bruce—														
Port Elgin					1									
Tiverton						1								
Walkerton														
					1	1								
Carleton—														
Ottawa					1	1	5	20						
					1	1	5	20						
Durham—														
Bowmanville			1			3					dog		1	
Enniskillen						1								
Millbrook				1										
Pontypool						3								
			1	1		7							1	
Dufferin—														
Orangeville					1	1								
Shelburne					1									
					2	1								
Elgin—														
Wallacetown						1								
						1								
Essex—														
Comber			2											
Essex											dog		1	
Kingsville						1								
Leamington						1								
Windsor					3	4		1						
			2		3	6		1					1	
Grey—														
Annan				1										
Durham					1	1								
Hanover						1								
Holstein				1										
Maxwell				1										
Owen Sound			1	3		1								
Shallow Lake						1								
			1	6	1	4								
Halton—														
Campbellville						1								
Freeman											dog		1	
Milton						1								
Trafalgar											dog		1	
						2							2	

of Health for month of July, 1912.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.							Water.	Diphtheria.	T.B.	Typhoid.	Total.
Fats.	Total Solids.	+	−	Tubercle Bac. +	Tubercle Bac. −	Pus cells. +	Pus cells. −	Count.		Chemical.	Bacterial.									
											1									
											1									
											2				10					
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Hastings—														
Frankford						1								
Trenton						1								
						2								
Haldimand—														
Cayuga											dog		1	
Dunnville						1								
Fisherville								2						
						1		2					1	
Huron—														
Brucefield	1	1												
Exeter					1									
Fordwich					1									
Seaforth				1										
Wingham						1								
Zurich						1								
	1	1		1	2	2								
Kent—														
Chatham				1	1	2	1	2						
Dresden								1						
Merlin					1									
Thamesville											dog		1	
				1	2	2	1	3					1	
Lambton—														
Petrolia						1								
Sarnia														
						1								
Lanark—														
Perth				1										
				1										
Lincoln—														
Grimsby														
Merritton						1								
Niagara-on-the-Lake														
St. Catharines						2								
						3								
Muskoka—														
Bracebridge								1						
Huntsville		1		1				1						
Port Carling						1								
		1		1		1		2						
Middlesex—														
Ailsa Craig						2								
Glencoe				1										
London														
Parkhill					1	1								
				1	1	3								

of Health for month of July. 1912.—Continued,

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	Animal inoculations
Nipissing—														
Cobalt														
Haileybury						1								
North Bay						2								
Schumacher														
Sudbury						1								
Swastika														
Verner					1									
					1	4								
Norfolk—														
Port Dover						1								
Simcoe								2			dog		1	
Waterford						1								
						2		2					1	
Northumberland—														
Brighton					1									
Cobourg						1								
					1	1								
Ontario—														
Beaverton								1						
Cannington			1											
Oshawa						1								
Port Perry						1								
			1			2		1						
Oxford—														
Plattsville						2		1						
Princeton					1									
Tavistock						1								
Tillsonburg						3		1						
Woodstock					1	2		4						
					2	8		6						
Parry Sound—														
Burk's Falls				2	1									
Parry Sound								1						
Powassan						3								
South River						1								
Sprucedale								1						
				2	1	4		2						
Peel—														
Bolton														
Brampton														
Clarkson														
Dixie														
Port Credit											dog		1	
													1	
Perth—														
Kirkton														
Listowel						1		1						
Mono Road				2										
Stratford								1						
				2	1			2						

of Health for month of July, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Peterboro—														
Hastings								1						
Peterboro					1	4	2	2						
					1	4	2	3						
Prince Edward—														
Wellington					1									
					1									
Rainy River—														
Emo					1	1								
Fort Frances				1										
Kenora														
				1	1	1								
Renfrew—														
Eganville						2								
Pembroke														
						2								
Russell—														
Bourget	1			1		1								
	1			1		1								
Stormont—														
Osnabruck Centre						1								
						1								
Simcoe—														
Angus					1	1								
Barrie				1		1		4						
Beeton														
Bradford						1								
Churchill					1									
Cookstown								1						
Creemore				1										
Orillia														
Phelpston			1			1								
Stayner					1	2		1						
Thornton						1								
Waubaushene					1	1								
Collingwood					1	3								
			1	2	5	11		6						
Thunder Bay—														
Port Arthur								2						
Slate River														
								2						
Victoria—														
Kinmount				1										
Lindsay								1						
Manilla								1						
Woodville														
				1				2						

of Health for month of July. 1912.—Continued,

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.							Water.	Diphtheria.	T.B.	Typhoid.	Total.
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.									
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Waterloo—														
Galt					1		1		1					
New Hamburg					1		1							
Waterloo							1							
					2		3		1					
Welland—														
Niagara Falls							1	1	3					
Port Colborne							1							
Port Robinson														
Thorold														
Welland														
							2	1	3					
Wellington—														
Belwood					1		1							
Drayton						1								
Elora						1	3							
Erin							1		1					
Fergus						1								
Guelph									1					
Morriston								1						
Palmerston									1		dog		1	
					1	3	5	1	3				1	
Wentworth—														
Sheffield						1								
						1								
York—														
Agincourt							1		1					
Aurora						2								
Birch Cliff														
Eglinton	1	1	2											
Keswick														
Mimico			8	15										
Newtonbrook														
Schomberg														
Swansea	2	2	2	1										
Todmorden														
Toronto						1	1		2					
Weston	2			2										
Woodbridge				1										
	5	3	12	19	3	2			3					
Totals														

of Health for month of July, 1912.—Concluded.

Milk											Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																	
				Tubercle Bac.		Pus cells.															
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
																6					
												6									
												3									
											2	2			1						
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tubercolous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Algoma—														
Victoria Mines					1									
					1									
Brant—														
St. George			1		1									
			1		1									
Bruce—														
Chesley					1	1								
Creemore							1	4						
Tara		1		2										
Tiverton						1								
Teeswater														
Walkerton						1								
		1		2	1	3	1	4						
Carleton—														
Ottawa						1	1	4						
						1	1	4						
Dufferin—														
Grand Valley														
Durham—														
Blackstock				1										
Bowmanville		1				1								
Millbrook						1								
Port Hope					1									
Orono				1										
		1		2	1	2								
Elgin—														
Port Stanley						2								
Rodney														
						2								
Essex—														
Kingsville								1						
McGregor						1								
Windsor						4		2						
						5		3						
Frontenac—														
Arden				1										
				1										
Grey—														
Annan			1	1										
Hanover						2								
Holstein					1	1								
Owen Sound						1								
Priceville					1									
			1	1	2	4								

of Health for month of August. 1912.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	—	+	—	+	—	+	—	Cases	Number of injections	Animal	Negri bodies +	Negri bodies —	Animal inoculations
Haldimand—														
Caledonia					1									
Dunnville					1			1						
Jarvis								1						
					2			2						
Halton—														
Campbellville											dog	1		
Nassagaweya								1						
Oakville														
Palermo														
								1				1		
Hastings—														
Frankford														
Marmora					1									
Trenton								1						
					1			1						
Huron—														
Ethel							2	2						
Gorrie						1								
Seaforth							1							
Zurich							2	1						
						1	5	3						
Kent—														
Blenheim							1							
Chatham					1	1								
Duart						1								
Dresden								1						
Ridgetown					1	1								
Wallaceburg				1	1	2								
				1	3	5	1	1						
Lambton—														
Sarnia														
Wilkesport					1									
Wyoming								1						
					1			1						
Lanark—														
Almonte														
Carleton Place								1						
Pakenham					1									
Perth						1								
					1	1		1						
Lennox and Add.—														
Flinton														
Lincoln—														
Niagara-on-the-Lake					1			3						
Welland Port			1			1								
			1		1	1		3						

of Health for month of August, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Middlesex—														
Ailsa Craig						1								
Glencoe					1									
London			1											
			1		1	1								
Muskoka—														
Huntsville				1	1	1								
Port Carling				1										
Rosseau								1						
				2	1	1		1						
Nipissing—														
Cobalt														
Haileybury														
North Bay				1		1								
Porcupine														
Sturgeon Falls														
Swastika						1								
				1		2								
Norfolk—														
St. Williams														
Simcoe					1		5	3						
Waterford					1									
					2		5	3						
Northumberland—														
Warkworth								1						
								1						
Ontario—														
Pt. Perry								2						
								2						
Oxford—														
ingersoll														
Mt. Elgin											dog		1	
Otterville					1									
Plattsville					1									
Tavistock			1			1								
Tillsonburg							1	1						
Woodstock					1	1								
Princeton						1								
			1		3	3	1	1					1	
Parry Sound—														
Burk's Falls				1				1						
Magnetawan				1										
Parry Sound				1										
South River					1									
Sundridge						1								
				3	1	1		1						
Peel—														
Burnhamthorpe		1		1										
Cooksville														
Mono Rd.						1								

of Health for month of August, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
											4									
											4				7					
															5					
											8									
											8									
											9									
											1									
											2									
											15									
											43				46					
											1									
											6									
															17					
															1					
															2					
											1									
											1									
											2				12					
															6					
														1						

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	Animal inoculations
Peel—Continued.														
Palgrave						2								
Streetsville				1										
		1		2		3								
Perth—														
Aiwood														
Kirkton	1	2		2										
Listowel						1	1	1						
Monkton						1								
Stratford					3	2	1	3						
	1	2		2	3	4	2	4						
Peterboro—														
Havelock					1	1								
Lakefield						1								
Peterboro								3						
					1	2		3						
Prescott—														
Vankleek Hill							1							
							1							
Prince Edward—														
Wellington														
Rainy River—														
Keewatin														
Kenora														
Renfrew—														
Renfrew														
Russell—														
Bourget					1									
					1									
Stormont—														
Osnabruck Centre						1								
						1								
Simcoe—														
Angus						1								
Barrie						1	5	2						
Beeton				1										
Collingwood					1	1								
Everett						2								
Midland						1								
Orillia														
Stayner						2		2						
				1	1	8	5	4						

of Health for month of August, 1912,—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.							Water.	Diphtheria.	T.B.	Typhoid.	Total.
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	—	+	—	+	—	Count.		Chemical.	Bacterial.									
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Thunder Bay—														
Nepigon						1								
						1								
Victoria—														
Kinmount					1	1								
Lindsay						1		1						
					1	2		1						
Waterloo—														
Berlin						2								
Preston						1								
Waterloo			1			2								
Winterbourne								1						
			1			5		1						
Welland—														
Bridgeburg					1									
Fenwick					1									
Marshville						1								
Niagara Falls							3							
Ridgeway														
Pt. Colborne					1									
					3	1	3							
Wellington—														
Belwood						2		1						
Elora						1								
Guelph								1						
Harriston							2							
Hillsburg						1								
Rockwood				1										
				1		4	2	2						
York—														
Agincourt				1										
Aurora						1								
Eglinton		2				3								
Markham						1								
Mimico			1	12										
Roche's Point														
Swansea	4	3	1	1										
Toronto								4	3	63	dogs	2		
Weston														
	4	5	2	14		5		4	3	63		2		
Total														

of Health for month of August, 1912.—Concluded.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.							Water.	Diphtheria.	T.B.	Typhoid.	Total.
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.									
															1					
															4					
															7					
											1									
											13									
											14				21					
															9					
												1								
											6	27								
											9									
											15	28			145					

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Algoma—														
Creighton Mine	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Sault Ste. Marie	....	....	....	....	1	1	....	....	....	....	....	....	....	....
Thessalon	....	....	....	....	1	3	....	....	....	....	....	....	....	....
Victoria Mine	....	....	....	....	....	....	1	....	....	....	....	....	....	....
	....	....	....	....	2	5	1	....	....	....	....	....	....	....
Brant—														
Brantford	....	....	....	....	....	....	....	....	2	43	dog	1	....	....
Burford	....	....	....	....	1	....	....	....	....	....	....	....	....	....
St. George	....	1	....	....	....	....	....	....	....	....	....	....	....	....
	....	1	....	....	1	....	....	....	2	43	....	1	....	....
Bruce—														
Creemore	....	....	....	1	....	....	....	1	....	....	....	....	....	....
Kincardine	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Kinlass	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Ripley	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	....	....	....	1	....	2	....	1	....	....	....	....	....	....
Carlton—														
Ottawa	....	....	....	....	1	3	4	1	....	....	....	....	....	....
	....	....	....	....	1	3	4	1	....	....	....	....	....	....
Dufferin—														
Orangeville	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Shelburne	....	....	....	....	....	....	....	3	....	....	....	....	....	....
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Durham—														
Bethany	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Bowmanville	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Enniskillen	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Millbrook	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Pt. Hope	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Elgin—														
Aylmer	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Pt. Stanley	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Wallacetown	....	....	....	....	....	1	....	....	....	....	....	....	....	....
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Essex—														
Belle River	....	....	....	....	....	....	....	....	....	....	dog	....	1	....
Comber	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Essex	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Kingsville	....	....	....	....	....	....	2	2	....	....	....	....	....	....
Leamington	....	....	....	....	....	1	....	....	....	....	dog	....	1	....
Walkerville	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Windsor	....	....	....	....	1	4	1	2	....	....	....	....	....	....
	....	....	....	1	1	6	3	4	....	....	....	....	2	....
Frontenac—														
Arden	....	....	....	....	....	....	....	....	....	....	dog	....	1	....
	....	....	....	....	....	....	....	....	....	....	....	....	1	....

of Health for month of September, 1912.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Grey—														
Dundalk						1								
Meaford								1						
Owen Sound					1		1	4						
Rocklyn														
Shallow Lake											dog		1	
					1	1	1	5					1	
Halton—														
Oakville		1						1						
		1						1						
Haldimand—														
Dunnville														
Jarvis								1						
								1						
Hastings—														
Madoc								1						
Marmora						1								
						1		1						
Huron—														
Clinton						1								
Dashwood											dog	1		
Ethel								1						
Exeter					11	1								
Fenwick							1	1						
Zurich							1	1						
					2	2	2	3				1		
Kent—														
Chatham					1	2		2						
Dresden					1	1								
Wallaceburg					1	1								
					3	4		2						
Lambton—														
Alvinston					1	2								
Chapleau														
Oil Springs					2									
Sarnia					1									
Wyoming							1							
					4	2	1							
Lincoln—														
Beamsville			1											
Niagara-on-the-Lake						1		2						
St. Catharines					2	1								
Vineland														
Wellandport				1										
			1	1	2	2		2						
Middlesex—														
Ailsa Craig						2								
Granton								1						
London								1						

of Health for month of September, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	Animal inoculations
Middlesex—Continued.														
Lucan	....	....	....	....	1	....	....	....	....	....	....	....	....	....
	....	....	....	....	1	2	....	2	....	....	....	....	....	....
Muskoka—														
Bracebridge	....	....	....	1	....	....	....	....	....	....	....	....	....	....
	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Nipissing—														
Cobalt	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cochrane	....	....	....	2	2	....	....	....	....	....	....	....	....	....
Haileybury	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Jack Fish	....	....	....	....	....	....	....	....	....	....	....	....	....	....
North Bay	....	....	....	....	1	....	....	2	....	....	....	....	....	....
Sturgeon Falls	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Sudbury	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Verner	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	....	....	....	3	3	2	....	2	....	....	....	....	....	....
Norfolk—														
Pt. Rowan	....	....	....	....	....	1	....	2	....	....	....	....	....	....
Simcoe	....	....	....	1	....	....	1	3	....	....	....	....	....	....
	....	....	....	1	....	1	1	5	....	....	....	....	....	....
Northumberland—														
Castleton	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Cobourg	....	....	....	....	....	1	....	1	....	....	....	....	....	....
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Ontario—														
Pickering	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Saintfield	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Uxbridge	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	....	....	....	1	....	1	1	....	....	....	....	....	....	....
Oxford—														
Ingersoll	....	....	....	....	....	4	....	2	....	....	....	....	....	....
Princeton	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Tavistock	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Tillsonburg	....	....	....	1	....	1	....	1	....	....	....	....	....	....
Woodstock	....	....	....	....	1	....	2	2	....	....	....	....	....	....
	....	....	....	1	1	8	2	5	....	....	....	....	....	....
Parry Sound—														
Depot Harbor	....	....	....	....	....	....	....	....	....	....	....	....	....	....
South River	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Peel—														
Burnhamthorpe	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Mono Rd.	....	....	....	2	....	....	....	....	....	....	....	....	....	....
	....	....	....	2	1	....	....	....	....	....	....	....	....	....
Perth—														
Stratford	....	....	....	....	2	....	....	2	....	....	....	....	....	....
	....	....	....	....	2	....	....	2	....	....	....	....	....	....

of Health for month of September, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.	Bacteriological.						Extraneous matter.							Water.	Diphtheria.	T.B.	Typhoid.	Total.
Fats.	Total Solids.	+	−	Tubercle Bac. +	Tubercle Bac. −	Pus cells. +	Pus cells. −	Count.		Chemical.	Bacterial.									
											18				23					
															1					
											4									
											14									
											2									
											20				30					
															8					
											3			1						
											3			1	7					
											1									
											1				4					
											1									
											1				18					
											2									
											2				3					
															3					
															4					

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Peterboro—														
Havelock	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Peterboro	....	....	....	....	....	4	....	3	....	....	....	....	....	....
	....	....	....	....	....	4	....	4	....	....	....	....	....	....
Prescott—														
Vankleek Hill	....	....	....	....	....	....	....	1	....	....	....	....	....	....
	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Rainy River—														
Ft. Frances	....	....	....	1	....	....	....	....	....	....	....	....	....	....
	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Renfrew—														
Pembroke	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Russell—														
Bourget	....	....	....	....	2	....	....	....	....	....	....	....	....	....
	....	....	....	....	2	....	....	....	....	....	....	....	....	....
Simcoe—														
Barrie	....	....	....	....	1	2	....	2	....	....	....	....	....	....
Bondhead	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Bradford	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Collingwood	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fesserton	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Gilford	....	....	....	....	....	....	....	....	....	....	dog	1	....	....
Midland	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Orillia	....	....	....	2	....	....	....	1	....	....	....	....	....	....
	....	....	....	2	1	6	....	3	....	....	....	1	....	....
Victoria—														
Lindsay	....	....	....	....	1	....	....	1	....	....	....	....	....	....
	....	....	....	....	1	....	....	1	....	....	....	....	....	....
Waterloo—														
Baden	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Berlin	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Galt	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Preston	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Waterloo	....	....	1	....	1	....	....	....	....	....	....	....	....	....
	....	....	1	1	1	3	....	1	....	....	....	....	....	....
Welland—														
Niagara Falls	....	....	....	....	....	....	1	3	....	....	....	....	....	....
Ridgeway	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Wellington—														
Arthur	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Belwood	....	....	....	1	....	....	....	1	....	....	....	....	....	....
Elora	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Erin	....	....	1	1	....	....	....	....	....	....	....	....	....	....
Fergus	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Guelph	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Harriston	....	....	....	....	....	....	....	2	....	....	....	....	....	....

of Health for month of September, 1912,—Continued,

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
Fats.	Total Solids.	+	−	Tubercle Bac. +	Tubercle Bac. −	Pus cells. +	Pus cells. −	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
1			1																	
1			1												10					
															1					
															1					
											12	1								
											12	1			13					
															2					
											1									
											2	2								
											1									
											1									
											5	2			20					
															2					
											7									
											7				14					
											4									
											4				8					

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Wellington—Continued														
Moorefield														
			1	3		3		4						
York—														
Aurora					1	1								
Markham				1										
Mimico			4	18				1						
Schomberg								1						
Swansea	1	3		2										
Sutton West		1												
Richmond Hill						1								
Toronto		3				1		2	1	23	3dogs	1	2	
Weston						2								
	1	7	4	21	1	5		4	1	23		1	2	

Report from Laboratory of Provincial Board

Algoma—														
Gore Bay			1											
Sault Ste. Marie					1	1								
Thessalon						1								
Victoria Mines														
Webbwood														
			1		1	2								
Brant—														
Brantford					1									
Burford														
Paris														
					1				1	21				
Bruce—														
Chesley						2								
Kincardine														
Paisley						1								
Ripley						1								
Wiarton						2								
						6								
Carlton—							1							
Carp														
Kars					1									
Metcalfe														
Ottawa					2	2		1						
					3	2	1	1						
Dufferin—														
Orangeville						1								
Rosemont						1								
Shelburne														
						2								

of Health for month of September, 1912.—Concluded.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	—	+	—	+	—	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
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of Health for month of October, 1912.

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...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	20	6	6	5	37
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Report from Laboratory at Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Durham—														
Bethany					1	1								
Bowmanville							1							
Burketon Junction														
Clarke						1								
Newcastle								1						
Orono														
Port Hope														
					1	2	1	1						
Elgin—														
Aylmer						1								
Port Stanley					1									
Wallacetown					1	1								
					2	2								
Essex—														
Amherstburg														
Essex						1								
Kingsville					1	1								
Walkerville				2							dog	1		
Windsor					2	2								
				2	3	4						1		
Grey—														
Annan					1	1								
Chatsworth														
Dromore														
Markdale								1						
Meaford														
Owen Sound	3	8	1			1								
Hanover			1											
	3	8	2		1	2		1						
Grenville—														
Cardinal														
Prescott				1										
				1										
Halton—														
Georgetown								1						
Milton						1								
Palermo		2												
		2				1		1						
Haldimand—														
Caledonia														
Dunnville						1		1						
Selkirk							1	1						
						1	1	2						
Hastings—														
Bancroft														
Belleville														
Coe Hill				1		1								
Frankford	1	1												
Madoc					1									
Marmora					1									

of Health for month of October, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	6	5	...
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Hastings.—Continued														
Springbank	....	....	....	....	1	....	....	....	....	....	....	....	....	....
	1	1	....	1	3	1	....	....	....	....	....	....	....	....
Huron—														
Brucefield	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Exeter	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Gorrie	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Goderich	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Londesboro	....	....	....	....	....	2	....	....	....	....	....	....	....	....
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Kent—														
Chatham	....	....	....	....	....	....	....	2	....	....	....	....	....	....
Dresden	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Merlin	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Wallaceburg	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Lambton—														
Camlachie	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Petrolia	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sarnia	....	....	....	....	....	....	....	1	....	....	....	....	....	....
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Lanark—														
Lanark	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pakenham	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Perth	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Lincoln—														
Beamsville	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Grimsby	....	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Catharines	....	....	....	....	4	2	....	....	....	....	dog	....	1	....
Smithville	....	....	....	2	....	1	....	....	....	....	....	....	....	....
Vineland	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Leeds—														
Lansdowne	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Mallorytown	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Lennox and Addington—														
Napanee	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Middlesex—														
Glencoe	....	....	....	....	....	....	....	....	....	....	....	....	....	....
London	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Parkhill	....	....	....	....	....	1	....	....	1	21	....	....	....	....
Strathroy	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Muskoka—														
Bracebridge	....	....	....	....	....	....	....	2	....	....	....	....	....	....
Gravenhurst	....	....	....	1	....	....	....	....	....	....	....	....	....	....

of Health for month of October, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Muskoka.—Continued														
Huntsville														
				1				2						
Nipissing—														
Charlton														
Cochrane						1								
Haileybury														
North Bay			1	2										
Sturgeon Falls					1			1						
Timmins														
			1	2	1	1		1						
Norfolk—														
Port Dover														
Port Rowan						1	1							
Simcoe							2							
						1	3							
Northumberland—														
Cobourg														
Colborne														
Bailieboro														
Ontario—														
Cannington														
Newmarket														
Port Perry				2										
Oshawa						1								
Uxbridge														
Saintfield				1										
				3		1								
Oxford—														
Drumbo														
Ingersoll						2		1						
Thamesford														
Tillsonburg				1	1	2	1	4						
Plattsville					1	1								
Woodstock								2						
				1	2	5	1	7						
Parry Sound—														
Burk's Falls				2										
Byng Inlet						1								
Parry Sound														
South River						2								
Sprucedale														
Powassan						1								
Sundridge														
				2		4								
Peel—														
Burnhamthorpe						1								
Streetsville														
						1								

of Health for month of October, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
Fats.	Total Solids.	+	−	Tubercle Bac. +	Tubercle Bac. −	Pus cells. +	Pus cells. −	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	12	10	12	....
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		Animal inoculations
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	
Perth—														
Atwood														
Listowel								1						
Monkton				1			2	1						
Millbank														
Sebringville														
Stratford						1		1						
				1		1	2	3						
Peterboro'—														
Hastings				1										
Norwood					1									
Peterboro'					2									
				1	3									
Prince Edward—														
Bloomfield														
Picton														
Prescott—														
Fournier														
L'Orignal														
Vankleek Hill						1								
						1								
Rainy River—														
Keewatin						1								
Kenora														
						1								
Renfrew—														
Douglas														
Pembroke														
Renfrew			1											
			1											
Simcoe—														
Barrie					1	2		4						
Collingwood						1								
Duntroon														
Midland						2								
Thornton								1						
Victoria Harbor				1										
Phelpston						1								
				1	1	6		5						
Stormont—														
Mille Roches														
Osnabruck Centre														
Thunder Bay—														
Nepigon					1						dog		1	
					1								1	

of Health for month of October, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
...	...	...	...	...	....	....	....	....	....	....	1	....	....	....	....	....	6	5	6	....
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...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	6	5	6	....
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...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	12	10	12	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	18	15	18	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	30	25	30	85
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	6	5	6	....
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...	...	...	...	...	....	....	....	....	....	....	1	....	....	....	....	....	12	5	6	....
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...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	6	5	6	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	6	5	6	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	12	10	12	34
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	Animal inoculations
Victoria—														
Bobcaygeon						1								
Lindsay					1	2								
Little Britain				1										
Manilla														
				1		3								
Waterloo—														
Ayr							1	2						
Berlin						3		2						
Galt				1			1							
Hawkesville						1								
Hespeler		1												
Linwood														
Waterloo				3		3								
		1		3		7	2	4						
Welland—														
Fonthill						1								
Niagara Falls					1	1	2							
Port Colborne					1	1								
Ridgeway														
Thorold					1									
					3	3	2							
Wellington—														
Drayton						1	2	1						
Belwood			1	1		1								
Elora						2								
Harriston					1									
Hillsburg						1								
Guelph							1	1						
Moorefield						1								
Mount Forest														
			1	1	1	6	3	2						
Wentworth—														
Binbrook				2										
Freelton														
Hamilton														
Sheffield						1								
				2		1								
York—														
Agincourt														
Aurora														
Mimico		1	4	24	2									
Markham								1						
Schomberg				1										
Swansea		2	3	1										
Toronto				2		2		2			dog		1	
Weston						2								
Wychwood														
		3	7	28	2	4		3					1	

of Health for month of October, 1912.—Concluded.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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...	...	...	...	...	...	...	...	...	...	...	4	...	...	...	8	4	12	10	12	38
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	10	12	....
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	10	12	....
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4	...	...	4	...	...	...	...	4	...	...	8	...	...	...	34	5	12	15	12	44
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tubercolous sputa		Typhoid bloods		Pasteur preventive treatment		Rabics diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies		Animal inoculations
												+	−	
Algoma—														
Chelmsford	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Little Current	....	....	....	....	2	....	....	....	....	....	....	....	....	....
Manitowaning	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Sault Ste. Marie	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Thessalon	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Victoria Mine	....	....	....	1	....	1	....	....	....	....	....	....	....	....
	....	....	....	1	3	4	....	....	....	....	....	....	....	....
Brant—														
Brantford	....	....	....	....	2	4	....	....	....	....	....	....	....	....
Burford	....	....	....	....	1	....	....	....	....	....	....	....	....	....
	....	....	....	....	3	4	....	....	....	....	....	....	....	....
Bruce—														
Chesley	....	....	....	1	3	....	....	....	....	....	....	....	....	....
Paisley	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Ripley	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Teeswater	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Walkerton	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	....	....	....	1	3	2	....	....	....	....	....	....	....	....
Carleton—														
Carp	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Metcalf	....	....	....	2	....	....	....	....	....	....	....	....	....	....
North Gower	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ottawa	....	....	....	....	....	1	1	....	....	....	....	....	....	....
	....	....	....	2	....	1	1	....	....	....	....	....	....	....
Dufferin—														
Grand Valley	....	....	....	....	....	1	1	1	....	....	....	....	....	....
Honeywood	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Marshville	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Orangeville	....	....	....	....	1	....	....	....	....	....	....	....	....	....
	....	....	....	....	1	3	1	1	....	....	....	....	....	....
Durham—														
Bowmanville	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Newcastle	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Port Hope	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Essex—														
Belle River	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Kingsville	....	....	....	....	....	....	....	....	....	....	....	....	....	....
S. Woodslee	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Windsor	....	....	....	....	....	6	....	....	....	....	....	....	....	....
	....	....	....	1	....	6	....	....	....	....	....	....	....	....
Elgin—														
Port Burwell	....	....	....	....	....	....	....	2	....	....	....	....	....	....
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of Health for month of November, 1912.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		Animal inoculations
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	
Frontenac—														
Kingston														
Glengarry—														
Apple Hill														
Dunvegan														
Lancaster														
Maxville														
Martintown														
Grenville—														
Bishop's Mills														
Prescott				4										
				4										
Grey—														
Annan						1								
Chatsworth														
Dundalk					1	1								
Durham						1								
Hanover														
Meaford		1		3		1								
Neustadt														
Owen Sound						1								
Shallow Lake						1								
		1		3	1	6								
Halton—														
Oakville														
Palermo		1												
		1												
Hastings—														
Madoc					1									
Marmora					1	1								
Maynooth				1										
				1	2	1								
Huron—														
Auborn						1								
Brussels							1							
Clinton							1							
Exeter						1								
Fordwich						1								
Goderich						1		1						
Landesboro						1								
Seaforth							2							
Wingham						1								
						6	4	1						
Kent—														
Blenheim								4			cat		1	
Chatham				1			2							
Merlin														
Wallaceburg						1								
				1		1	2	4					1	

of Health for month of November, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	24	20	24	....
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Lambton—														
Alvinston				1										
Arkona						2								
Sarnia														1
Thedford					1									
Wyoming								2						
				1	1	2		2						1
Lanark—														
Perth				1										
				1										
Leeds—														
Brockville														
Seeley's Bay														
Lincoln—														
Ottercliff Sta.				1										
Beamsville			3	1										
Caistorville					1									
Jordon			2											
St. Catharines				1	1	2	1	2						
			5	3	2	2	1	2						
Lennox and Addington.														
Odessa														
Middlesex—														
Ailsa Craig						1								
Lambeth														
London														
						1								
Muskoka—														
Bracebridge						2		1						
Gravenhurst			1	1										
			1	1		2		1						
Nipissing—														
Charlton					1									
Cobalt														
Cochrane														
Haileybury														
New Liskeard						1								
North Bay														
Sturgeon Falls						1								
Swastika														
					1	2								
Norfolk—														
Delhi														
Port Dover						1								
Port Rowan								1						
Simcoe							1	3						
						1	1	4						

of Health for month of November, 1912,—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Northumberland—														
Bomanton														
Cobourg							1							
Colborne			1		1									
Grafton														
Wooler					1									
			1		2		1							
Ontario—														
Beaverton						1								
Uxbridge						1								
Whitby						2								
Zephyr														
						4								
Oxford—														
Bright														
Drumbo														
Embro									1	4	horse	1		
Ingersoll				1	2	2	1							
Plattsville								1						
Thamesford														
Tillsonburg				2										
Woodstock						1								
				3	2	3	1	1	1	4		1		
Parry Sound—														
Burk's Falls				1										
Byng Inlet				1		1								
Callender														
Dunchurch														
Kearney		2	2											
Loring														
Parry Sound														
Powassan						1								
South River														
Sprucedale														
		2	2	2		2								
Peel—														
Alton		1		2										
Brampton														
Mono Rd.														
Streetsville				1										
		1		3										
Perth—														
Hastings						1								
Listowel						1								
Milverton								1						
St. Mary's			1											
Sebringville														
Shakespeare														
Stratford							1							
			1			2	1	1						

of Health for month of November, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
																1				
																	12	10	12	
																	6	5	6	
											1					1				
											1				5	2	18	15	18	53
																	6	5	6	
																	12	10	12	
																	6	5	6	
															4		24	20	24	68
																	6	5	6	
											1					2				
											1					6	18	15	18	
											2				34	8	24	20	24	76
											1									
																	18	15	18	
																10	18	15	18	
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											1									
																		6	5	6
											2				4		6	5	6	17
																	12	10	12	
																	6	5	6	
																	12	10	12	
											1					3				
																	12	10	12	
											2						30	25	30	
											3				8	3	72	60	72	204

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis									Negri bodies		
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	+	−	Animal inoculations
Peterboro'—														
Lakefield														
Peterboro'					1	1								
					1	1								
Prescott—														
Riceville		2	1											
St. Amour						1		1						
Vankleek Hill							1							
		2	1			1	1	1						
Prince Edward—														
Bloomfield					1									
Picton		1	2			1								
		1	2		1	1								
Rainy River—														
Rainy River						2								
						2								
Renfrew—														
Cobden														
Eganville					1									
Pembroke						1								
					1	1								
Russell—														
Bourget														
Simcoe—														
Alliston								1						
Angus														
Barrie			1		1	1		1						
Beeton								1						
Bondhead						1								
Bradford														
Collingwood			2	2		1		1						
Coldwater														
Edgar														
Everett						1								
Hillsdale							1							
Orillia						1		1						
Midland						1								
Stayner														
Stroud														
			3	2	1	6	1	5						
Thunder Bay—														
Fort William							1							
Port Arthur								1						
Schreiber						1								
						1	1	1						
Victoria—														
Lindsay														

of Health for month of November, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	18	15	18	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	2	....	18	15	18	51
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	24	20	24	....
...	...	...	...	...	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....
...	...	...	...	...	....	....	....	....	....	....	2	....	....	....	8	....	24	20	24	68
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	5	2	....	....	....	2
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	12	10	12	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	2	....	12	10	12	34
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	6	5	6	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	6	5	6	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	6	5	6	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	2	....	18	15	18	51
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	30	25	30	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	30	25	30	85
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	12	10	12	....
...	...	...	...	...	....	....	....	....	....	....	1	....	....	....	....	....	18	15	18	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
...	...	...	4	...	....	....	....	....	....	....	....	....	....	....	....	....	6	5	6	....
4	...	...	4	...	....	....	....	....	....	....	1	....	....	1	....	....	24	20	24	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	6	5	6	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	6	5	6	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	6	5	6	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	30	25	30	....
4	...	...	4	...	....	....	....	....	....	....	4	....	....	1	31	....	108	96	108	306
...	...	...	...	...	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
...	...	...	...	...	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
...	...	...	...	...	....	....	....	....	....	....	3	....	....	....	6	....	....	....	....	....
...	...	...	...	...	....	....	....	....	....	....	....	....	....	....	....	....	12	10	12	....

Report of Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Victoria.—continued.														
Little Britain	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Waterloo—														
Ayr	....	....	....	....	....	....	....	2	....	....	....	....	....	....
Berlin	....	....	....	....	....	3	1	....	....	....	....	....	....	....
Elmira	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Galt	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Hespeler	....	....	....	....	1	....	....	....	....	....	....	....	....	....
New Dundee	....	....	....	....	....	....	1	....	....	....	....	....	....	....
New Hamburg	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Preston	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Waterloo	....	....	1	1	....	1	....	....	....	....	....	....	....	....
	....	....	1	2	1	6	2	2	....	....	....	....	....	....
Welland—														
Niagara Falls	....	....	....	....	2	....	....	....	....	....	....	....	....	....
Pt. Colborne	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Ridgeway	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Welland	....	....	....	....	....	....	1	....	....	....	....	....	....	....
	....	....	....	....	2	1	1	....	....	....	....	....	....	....
Wellington—														
Alma	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Arthur	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Elora	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Fergus	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Guelph	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Harriston	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Moorefield	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Mt. Forest	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Rockwood	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	....	....	....	....	2	2	....	....	....	....	....	....	....	....
Wentworth—														
Hamilton	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	....	....	....	....	....	....	....	....	....	....	....	....	....	....
York—														
Agincourt	....	....	....	....	....	....	....	2	....	....	....	....	....	....
Aurora	....	....	....	....	1	4	....	....	....	....	....	....	....	....
Eglinton	....	....	1	1	1	1	....	....	....	....	....	....	....	....
Hagerman's Cor.	....	....	....	....	....	....	....	....	....	....	dog	1	....	....
Lloydtown	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Mimico	....	....	1	17	2	1	....	....	....	....	....	....	....	....
Mt. Albert	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Richmond Hill	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Schomberg	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Swansea	....	4	1	1	....	....	....	....	....	....	....	....	....	....
Thornhill	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Toronto	....	....	....	3	....	2	....	....	1	20	dog	1	1	....
Unionville	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Weston	....	....	1	2	....	....	....	....	....	....	....	....	....	....
	....	4	4	24	5	9	....	2	1	20	....	2	1	....
	....	....	....	....	....	....	....	....	....	....	....	....	....	....

of Health for month of November, 1912.—Concluded.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	12	10	12	34
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	...	...	...	...
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...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	15	12	6	5	6	29
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	5	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	10	12	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	5	6	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	5	6	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	5	6	...
...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	5	6	...
...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	7	...	36	30	36	102
...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	6	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	5	6	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
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...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	10	12	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	5	6	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	2	21	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	5	21	...	...	98	4	24	20	24	72

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Algoma—														
Blind River	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sault Ste. Marie	3	21	4	30	....	2	....	1	....	....	....	....	....	....
Victoria Harbor	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	3	21	4	30	....	3	....	1	....	....	....	....	....	....
Brant—														
Brantford	....	....	....	....	....	3	....	....	....	....	....	....	....	....
Burford	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	....	....	....	....	....	4	....	....	....	....	....	....	....	....
Bruce—														
Chesley	....	....	....	....	....	....	....	3	....	....	....	....	....	....
Hepworth	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Kincardine	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Lion's Head	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Paisley	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Teeswater	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tara	....	....	....	1	1	....	....	....	....	....	....	....	....	....
Wiarton	....	....	....	1	....	....	....	....	....	....	....	....	....	....
	....	....	....	3	1	3	....	3	....	....	....	....	....	....
Carleton—														
Carp	....	....	....	....	1	2	....	....	....	....	....	....	....	....
Metcalfe	....	....	....	....	....	3	....	....	....	....	....	....	....	....
Ottawa	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	....	....	....	....	1	6	....	....	....	....	....	....	....	....
Dufferin—														
Grand Valley	....	....	....	....	1	2	....	1	....	....	....	....	....	....
Orangeville	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Shelburne	....	....	....	....	....	1	....	....	....	....	....	....	....	....
	....	....	....	....	1	5	....	1	....	....	....	....	....	....
Durham—														
Bethany	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Bowmanville	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Enniskillen	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Orono	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Millbrook	....	....	....	....	....	1	1	1	....	....	....	....	....	....
Tyrone	....	....	....	....	....	....	....	....	....	....	dog	1	....	....
	....	....	....	....	....	5	1	1	....	....	....	1	....	....
Elgin—														
Port Stanley	....	....	....	....	....	....	....	2	....	....	....	....	....	....
St. Thomas	....	....	....	....	....	....	....	....	1	21	....	....	....	....
	....	....	....	....	....	....	....	2	1	21	....	....	....	....
Essex—														
Comber	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Essex	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Kingsville	....	....	....	1	....	1	....	....	....	....	....	....	....	....
Walkerville	....	....	....	1	....	....	....	....	....	....	....	....	....	....
	....	....	....	3	....	2	....	....	....	....	....	....	....	....
Glengarry—														
Alexandria	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	....	....	....	....	....	....	....	....	....	....	....	....	....	....

of Health for month of December, 1912.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
											1									
																	84			84
											1				63					
																	6	5	6	17
															4		6	5	6	17
											1					2				2
																	54			54
											1									
											2				12	2	54			54
															7					
																	6	5	6	17
															7		6	5	6	17
											1					1				
																12	12	10	12	46
											1				9	12	12	10	12	46
															24					
															5					
																	18	15	18	51
																	18	15	18	51

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Grenville—														
Bishop's Mills														
Kemptville						1								
Prescott		1												
		1				1								
Grey—														
Annan						1								
Dundalk						1								
Durham		1		1		1								
Markdale						1								
Rocklyn			1											
Owen Sound					3	2		1						
		1	1	1	3	6		1						
Haldimand—														
Caledonia						1								
Cayuga						1								
						2								
Halton—														
Campbellville				1										
Georgetown					1	2		1						
				1	1	2		1						
Hastings—														
Madoc						1								
Marmora				1		2	1	1						
Maynooth						3								
Trenton			1	1										
			1	2		6	1	1						
Huron—														
Belgrave					1									
Brussels								2						
Hensall								1						
Seaforth				1			1							
Zephyr						1		1						
				1	1	1	1	4						
Kent—														
Blenheim					1									
Chatham					2	4		2						
Merlin						1								
Thamesville						1								
Tilbury														
Wallaceburg						1								
					3	7		2						
Lambton—														
Alvinston						1								
Petrolia				1										
Sarnia														
Wilkesport														
				1		1								

of Health for month of December, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	—	+	—	+	—	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	10	12	34
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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...	...	...	...	...	...	...	...	...	...	...	4	...	...	...	...	10	6	5	6	27
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	4	10	...	...	...	10

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies		Animal inoculations
												+	−	
Lanark—														
Almonte	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Pakenham	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Perth	....	....	....	3	....	....	....	....	....	....	....	....	....	....
	....	....	....	3	1	1	....	....	....	....	....	....	....	....
Leeds—														
Brockville	....	....	....	....	1	1	....	....	....	....	....	....	....	....
	....	....	....	....	1	1	....	....	....	....	....	....	....	....
Lincoln—														
Beamsville	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Niagara-on-the-Lake	....	....	....	....	....	1	....	....	....	....	....	....	....	....
St. Catharines	....	....	....	....	1	5	....	2	....	....	....	....	....	....
Smithville	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	....	....	....	....	1	7	....	2	....	....	....	....	....	....
Middlesex—														
Lambeth	....	....	....	1	....	....	....	....	....	....	....	....	....	....
London	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Muskoka—														
Gravenhurst	....	....	....	3	....	....	....	1	....	....	....	....	....	....
Huntsville	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Rosseau	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	....	....	....	4	....	....	....	1	....	....	....	....	....	....
Nipissing—														
Bonfield	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Haileybury	....	....	....	....	....	1	....	....	....	....	....	....	....	....
New Liskeard	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Porcupine	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Port McNichol	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Sturgeon Falls	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Verner	....	....	....	....	1	....	....	....	....	....	....	....	....	....
	....	....	1	....	1	3	....	1	....	....	....	....	....	....
Norfolk—														
Langton	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Port Rowan	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Simcoe	....	....	....	....	....	....	....	2	....	....	....	....	....	....
Waterford	....	....	....	....	....	1	....	....	....	....	....	....	....	....
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Northumberland—														
Campbellford	4	10	....	....	....	....	....	....	....	....	....	....	....	....
Colborne	....	....	....	....	....	3	....	....	....	....	....	....	....	....
Cobourg	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Grafton	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	4	10	....	....	....	3	....	1	....	....	....	....	....	....
Ontario—														
Beaverton	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Port Perry	....	....	....	2	....	....	....	....	....	....	....	....	....	....
Sunderland	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Whitby	....	....	1	....	....	1	....	....	....	....	....	....	....	....
	....	....	1	2	....	1	....	1	....	....	....	....	....	....

of Health for month of December, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	20	24	68
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
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Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuberculous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Oxford—														
Ingersoll	....	....	....	1	....	....	....	1	2	44	dog	....	1	....
Plattsville	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Tillsonburg	....	....	....	....	....	....	....	2	....	....	....	....	....	....
Woodstock	....	....	....	....	....	2	....	5	....	....	....	....	....	....
	....	....	....	1	....	2	....	9	2	44	....	....	1	....
Parry Sound—														
Byng Inlet	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Loring	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Parry Sound	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Powassan	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Sprucedale	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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Peel—														
Brampton	....	....	....	2	....	....	....	....	....	....	....	....	....	...
Streetsville	....	....	....	2	....	....	....	....	....	....	....	....	....	....
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Peterboro—														
Peterboro	....	....	....	1	....	....	....	....	....	....	....	....	....	....
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Prince Edward—														
Picton	....	....	....	3	....	2	....	....	....	....	....	....	....	....
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Perth—														
Kirkton	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Listowel	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Monkton	....	....	....	....	1	2	....	....	....	....	....	....	....	....
St. Mary's	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Stratford	....	1	....	1	....	1	1	....	....	....	....	....	....	....
Shakespeare	....	....	....	1	....	....	....	....	....	....	....	....	....	....
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Prescott—														
Fournier	1	....	....	....	....	....	....	....	....	....	....	....	....	....
St. Isadore de Prescott.	....	....	....	....	1	....	....	....	....	....	....	....	....	....
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Rainy River—														
Ft. Frances	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Rainy River	....	....	....	....	....	1	....	....	....	....	....	....	....	....
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Renfrew—														
Eganville	....	....	....	1	1	....	....	....	....	....	....	....	....	....
Pembroke	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Renfrew	....	....	....	2	3	1	....	....	....	....	....	....	....	....
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Russell—														
Rockland	....	....	....	....	....	....	....	....	....	....	....	....	....	....
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of Health for month of December, 1912.—Continued.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.					Extraneous matter.											
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.		Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
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...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4	...	6	5	6	17
...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...	...	...	...
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...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	18	15	18	51
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...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	−	+	−	+	−	+	−	Cases	Number of injections	Animal	Negri bodies +	Negri bodies −	Animal inoculations
Simcoe—														
Barrie	....	....	....	....	....	1	3	13	....	....	....	....	....	....
Beeton	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Collingwood	....	....	....	2	....	....	....	....	....	....	....	....	....	....
Cookstown	....	....	....	....	11	....	....	....	....	....	....	....	....	....
Everett	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Creemore	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Orillia	....	....	....	....	....	....	....	4	....	....	....	....	....	....
Phelpston	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Stayner	....	....	....	2	....	....	....	....	....	....	....	....	....	....
Victoria Harbor	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Thornton	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Hillsdale	....	....	....	....	....	1	....	1	....	....	....	....	....	....
	....	....	....	6	12	3	3	18	....	....	....	....	....	....
Thunder Bay—														
Nipigon	....	....	....	....	....	....	....	....	....	....	2dogs	1	1	....
Port Arthur	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	....	....	....	....	....	....	....	....	....	....	....	1	1	....
Victoria—														
Fenelon Falls	....	....	....	....	....	1	....	1	....	....	....	....	....	....
Lindsay	....	....	....	....	1	....	....	....	....	....	....	....	....	....
	....	....	....	....	1	1	....	1	....	....	....	....	....	....
Waterloo—														
Berlin	2	....	1	....	1	5	....	1	....	....	....	....	....	....
Elmira	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Galt	....	....	....	....	1	2	....	....	....	....	....	....	....	....
New Hamburg	....	....	....	....	....	....	1	2	....	....	....	....	....	....
Waterloo	....	....	2	....	1	....	....	....	....	....	....	....	....	....
	2	....	3	....	3	8	1	3	....	....	....	....	....	....
Wentworth—														
Burlington	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sheffield	....	....	....	....	....	1	....	1	....	....	....	....	....	....
Waterdown	....	....	....	1	....	....	....	....	....	....	....	....	....	....
	....	....	....	1	....	1	....	1	....	....	....	....	....	....
Wellington—														
Arthur	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Drayton	....	....	....	....	....	1	....	1	....	....	....	....	....	....
Elora	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Belwood	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Clifford	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Glen Allan	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Guelph	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Harriston	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Morriston	....	....	....	3	....	....	....	....	....	....	....	....	....	....
Mount View	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Rockwood	....	....	....	....	....	....	....	....	....	....	....	....	....	....
	....	....	....	3	....	5	....	1	....	....	....	....	....	....

of Health for month of December, 1912.—Continued.

Milk										Waters.						Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	−	+	−	+	−	Count.	Extraneous matter.	Chemical.	Bacterial.	Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Water.	Diphtheria.	T.B.	Typhoid.	Total.
																2				2
																	6	5	6	17
											1									
																	6	5	6	17
														1						
											1			1	44		12	10	12	36
											1									
											1				3					
															3					
											3									
											3									
											6				26					
											2									
											2				5					
																	6	5	6	17
																	6	5	6	17
														1						
														1	10		12	10	12	34

Report from Laboratory of Provincial Board

Municipalities	Diphtheritic swabs				Tuber-culous sputa		Typhoid bloods		Pasteur preventive treatment		Rabies diagnosis			
	Release		Diagnosis											
	+	—	+	—	+	—	+	—	Cases	Number of injections	Animal	Negri bodies +	Negri bodies —	Animal inoculations
York—														
Aurora	....	....	....	....	....	2	....	....	....	....	....	....	....	....
Cedar Grove	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Markham	....	....	....	....	1	....	....	1	....	....	....	....	....	....
Mimico	....	1	4	18	....	1	....	....	....	....	....	....	....	....
Mount Albert	....	....	....	2	....	1	....	....	....	....	....	....	....	....
Swansea	....	....	....	2	....	....	....	....	....	....	....	....	....	....
Toronto	....	1	....	1	1	1	....	2	11	246	2dogs	....	2	....
Unionville	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Woodbridge	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Weston	....	....	....	5	1	1	....	1	....	....	1 dog	1	....	....
	....	2	4	28	3	6	....	4	11	246	3	1	2	....
	....	....	....	....	....	....	....	....	....	....	....	....	....	....

of Health for month of December, 1912,—Concluded.

Milk										Waters.		Liquors for License Dept.	Doses of Typhoid Vaccine sent out.	Miscellaneous Specimens.	Total for month.	Outfits sent out.				
Food Content.		Preservatives.		Bacteriological.																
				Tubercle Bac.		Pus cells.														
Fats.	Total Solids.	+	—	+	—	+	—	Count.	Extraneous matter.	Chemical.	Bacterial.					Water.	Diphtheria.	T.B.	Typhoid.	Total.
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	1	...	...	...	1
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	10	12	22
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	12	...	...	12
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	1	51	...	1	...	...	...	...	...	...
...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	2	...	...	...	2
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6	5	6	17
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3	18	15	18	54
...	...	...	...	...	...	...	...	...	...	...	5	51	...	1	367	6	48	40	48	142
...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

REPORT FROM LABORATORY OF PROVINCIAL BOARD OF HEALTH AT KINGSTON FOR MONTHS OF JANUARY, FEBRUARY, MARCH, 1912.

Municipalities.	Diphtheritic Swabs.				Tuberculous Sputa.		Typhoid Bloods.		Miscellaneous Specimens.	Waters.		Total Number for Quarter.
	Release.		Diagnosis.							Chemical.	Bacterial.	
	+	−	+	−	+	−	+	−				
Bruce	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Carleton	.....	.....	.....	1	.....	4	7	6	.....	.....	.....	18
Dundas	.....	.....	.....	1	.....	7	.....	1	.....	.....	1	10
Frontenac	1	11	3	30	15	55	23	55	12	.....	28	233
Glengarry	.....	.....	2	4	.....	2	.....	1	.....	.....	.....	9
Grenville	.....	.....	.....	.....	.....	5	4	6	1	.....	3	19
Hastings	.....	.....	.....	8	3	10	.....	3	8	.....	4	36
Lanark	1	.....	3	2	2	4	3	4	1	.....	3	23
Leeds	.....	.....	1	6	1	10	2	4	.....	.....	13	37
Lennox and Addington	.....	.....	.....	2	2	6	1	4	1	.....	2	18
Nipissing	.....	.....	.....	.....	.....	1	.....	.....	1	.....	.....	2
Northumberland	.....	.....	.....	.....	.....	1	1	.....	2	.....	.....	4
Prescott	.....	.....	.....	.....	1	1	.....	1	.....	.....	.....	3
Prince Edward	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Renfrew	.....	.....	1	1	4	10	2	2	.....	.....	1	21
Russell	.....	1	2	3	.....	5	.....	2	.....	.....	.....	13
Simcoe	.....	.....	.....	.....	.....	2	3	4	.....	.....	.....	9
Stormont	.....	.....	.....	2	.....	.....	1	.....	.....	.....	1	4
Victoria	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Waterloo	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Welland	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
	2	12	12	61	29	127	47	93	26	.....	56	465

Report from Laboratory of Provincial Board of Health, Kingston, for Months of January, February, March, 1912.

Municipalities.	Diphtheritic Swabs.				Tuberculous Sputa.		Typhoid Bloods.		Miscellaneous Specimens.	Waters.		Total Number for Quarter.
	Release.		Diagnosis.							Chemical.	Bacterial.	
	+	−	+	−	+	−	+	−				
Bruce—												
Paisley				1								1
Carleton—												
Crysler						1						1
Ottawa						2	6	4				12
Richmond								2				2
Vernon				1		1	1					3
Dundas—												
Brinston						1						1
Chesterville						1						1
Morrisburg						2						2
Winchester				1		3		1			1	6
Frontenac—												
Barriefield											10	10
Flinton								1				1
Harrowsmith						1		1				2
Kingston	1	11	3	30	14	50	20	50	9		16	204
Mountain Grove									1			1
Portsmouth					1	2			2			5
Sharbot Lake						1						1
Sydenham						1					1	2
Verona							3	2			1	6
Wolfe Island								1				1
Glengarry—												
Apple Hill						1						1
Lancaster				2								2
Maxville						1		1				2
Williamstown			2	2								4
Grenville—												
Bishop's Mills								3				3
Cardinal											1	1
Kemptville						2						2
Prescott						1	4	3	1		2	11
Spencerville						2						2
Hastings—												
Bancroft					1	4		1				6
Belleville				5	1				7		1	14
Madoc				2								2
Roslin				1	1	3		2			3	10
Trenton						1			1			2
Tweed						2						2
Lanark—												
Almonte	1		2	1	1				1			6
McDonald's Corners						1		1			3	5
Perth			1									1
Smith's Falls				1	1	3	3	3				11
Leeds—												
Brockville						4	2				12	18
Delta				1								1
Elgin						1						1

Report from Laboratory of Provincial Board of Health, Kingston, for months of January, February, March, 1912.—*Con.*

Municipalities.	Diphtheritic Swabs.				Tuberculous Sputa.		Typhoid Bloods.		Miscellaneous Specimens.	Waters.		Total Number for Quarter.
	Release.		Diagnosis.							Chemical.	Bacterial.	
	+	−	+	−	+	−	+	−				
Leeds.—Con.												
Gananoque						1		2				3
Lansdowne					1	4		1				6
Lyn											1	1
Mallorytown			1	4								5
Seeley's Bay				1								1
Toledo								1				1
Lennox & Addington—												
Bath				1		1						2
Enterprise					1							1
Napanee				1	1	4		1	1		2	10
Stella								1				1
Tamworth						1	1	1				3
Yarker								1				1
Nipissing—												
Sudbury						1			1			2
Northumberland—												
Campbellford									1			1
Port Hope						1	1		1			3
Prescott—												
Fournier								1				1
St. Amour					1	1						2
Prince Edward—												
Picton						1						1
Renfrew—												
Calabogie						1						1
Cobden						3	2	2			1	8
Douglas						1						1
Pembroke			1	1	2	4						8
Renfrew					2	1						3
Russell—												
Cumberland			1			1						2
Metcalfe		1	1	3		4		2				11
Simcoe—												
Barrie						2	3	4				9
Stormont—												
Avonmore				2							1	3
Finch							1					1
Victoria—												
Lindsay						2						2
Waterloo—												
Preston						1						1
Welland—												
Niagara Falls S.					1							1
Totals	2	12	12	61	29	127	47	93	26		56	465

REPORT FROM LABORATORY OF PROVINCIAL BOARD OF HEALTH AT KINGSTON FOR MONTHS OF APRIL, MAY, JUNE, 1912.

Municipalities.	Diphtheritic Swabs.				Tuberculous Sputa.		Typhoid Bloods.		Miscellaneous Specimens.	Waters.		Total Number for Quarter.
	Release.		Diagnosis.							Chemical.	Bacterial.	
	+	−	+	−	+	−	+	−				
Bruce	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	2
Carleton	.....	.....	.....	.....	2	7	1	3	.....	.....	.....	13
Dundas	.....	.....	.....	.....	.....	7	2	2	.....	.....	.....	11
Essex	.....	.....	.....	.....	1	2	.....	.....	.....	.....	.....	3
Frontenac	8	21	10	28	20	62	13	55	27	.....	18	262
Glengarry	.....	.....	.....	1	1	4	.....	.....	.....	.....	.....	6
Grenville	.....	.....	.....	.....	3	7	5	1	1	.....	2	19
Haldimand	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	2
Hastings	.....	.....	.....	.....	6	7	1	5	2	.....	1	22
Lanark	.....	.....	1	1	2	5	1	2	1	.....	6	19
Lennox & Addington.	.....	4	3	6	4	6	4	12	.....	.....	4	43
Leeds	.....	.....	.....	6	6	16	7	16	.....	.....	13	64
Nipissing	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Northumberland	.....	.....	.....	.....	3	2	.....	5	1	.....	.....	11
Peterboro'	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Prescott	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	2
Prince Edward	.....	.....	.....	.....	.....	3	.....	1	.....	.....	.....	4
Renfrew	.....	.....	1	2	3	16	1	4	.....	.....	5	32
Russell	.....	.....	.....	2	.....	.....	.....	2	.....	.....	.....	4
Simcoe	.....	.....	.....	.....	.....	5	1	6	.....	.....	.....	12
Stormont	.....	.....	.....	1	2	3	1	2	.....	.....	.....	9
Victoria	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	1	2
Waterloo	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	2
Welland	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Wentworth	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
York	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
	8	25	15	47	58	156	37	118	32	.....	53	549

Report from Laboratory of Provincial Board of Health at Kingston for months of April, May, June, 1912.

Municipalities.	Diphtheritic Swabs.				Tuberculous Sputa.		Typhoid Bloods.		Miscellaneous Specimens.	Waters.		Total Number for Quarter.
	Release.		Diagnosis.							Chemical.	Bacterial.	
	+	−	+	−	+	−	+	−				
Bruce—												
Paisley						1		1				2
Carleton—												
Crysler						1						1
Manotick					1	2						3
Ottawa					1	3	1	2				7
Richmond						1		1				2
Dundas—												
Chesterville—						2						2
Morrisburg							1	2				3
Winchester						5	1					6
Essex—												
Essex					1	2						3
Frontenac—												
Barriefield											4	4
Flinton								1				1
Harrowsmith							1	1				2
Kingston	8	21	10	27	20	59	12	48	24		11	240
Parham								1				1
Portsmouth				1					3		3	7
Verona						2		3				5
Wolfe Island						1		1				2
Glengarry—												
Alexandria						2						2
Dalkeith						1						1
Maxville				1	1							2
Williamstown						1						1
Grenville—												
Kemptville					2	4						6
Prescott					1		5	1			2	9
Spencerville						3			1			4
Haldimand—												
Hagersville											2	2
Hastings—												
Bancroft					1		1					2
Belleville									1			1
Hastings					1	1		1				3
Madoc					1	1		2				4
Marlbank					1	1		1				3
Roslin								1	1			2
Shannonville						1						1
Trenton					1							1
Tweed					1	3					1	5
Lanark—												
Almonte				1	1	2		1				5
Lanark						1						1
McDonald's Corners						1						1
Perth			1								6	7
Smith's Falls					1	1	1	1	1			5
Leeds—												
Brockville					3	6	5	8			11	33
Chaffey's Locks											2	2
Delta						2						2
Elgin						2						2
Gananoque					2		1	1				4
Lansdowne				4		4	1	7				16
Lyn					1	1						2

Report from Laboratory of Provincial Board of Health at Kingston for months of April, May, June, 1912.—*Continued.*

Municipalities.	Diphtheritic Swabs.				Tuberculous Sputa.		Typhoid Bloods.		Miscellaneous Specimens.	Waters.		Total Number for Quarter.
	Release.		Diagnosis.							Chemical.	Bacterial.	
	+	−	+	−	+	−	+	−				
Leeds—Con.												
Mallorytown				2								2
Newboro'						1						1
Lennox & Addington—												
Bath		4	3	1								8
Deseronto								1				1
Enterprise						2						2
Napanee				1	1	2	2	5			4	15
Newburgh				1	1							2
Odessa				1			1	2				4
Tamworth						1		1				2
Yarker				2	2	1	1	3				9
Nipissing—												
Cochrane											1	1
Northumberland—												
Castleton					1			3				4
Port Hope					2	2		2	1			7
Peterboro'—												
Peterboro'					1							1
Prescott—												
Fournier						1		1				2
Prince Edward—												
Picton						2						2
Wellington						1		1				2
Renfrew—												
Arnprior				1							4	5
Cobden						4		2			1	7
Douglas				1		1						2
Forresters' Falls								1				1
Killaloe						1						1
Pembroke			1			6						7
Renfrew					3	4	1	1				9
Russell—												
Metcalfe				2				2				4
Simcoe—												
Barrie						4	1	6				11
Port McNicoll						1						1
Stormont—												
Avonmore				1	1	2						4
Cornwall						1	1					2
Finch								2				2
Newington					1							1
Victoria—												
Lindsay						1					1	2
Waterloo—												
Preston					1	1						2
Welland—												
Niagara Falls S					1							1
Wentworth—												
Ancaster					1							1
York—												
Toronto					1							1
Totals	8	25	15	47	58	156	37	118	32		53	549

REPORT FROM LABORATORY OF PROVINCIAL BOARD OF HEALTH AT KINGSTON FOR MONTHS OF JULY, AUGUST, SEPTEMBER, 1912.

Municipalities.	Diphtheritic Swabs.				Tuberculous Sputa.		Typhoid Bloods.		Miscellaneous Specimens.	Waters.		Total Number for Quarter.
	Release.		Diagnosis.							Chemical.	Bacterial.	
	+	−	+	−	+	−	+	−				
Algoma	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	.....	1
Bruce	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Carleton	.....	.....	.....	.....	5	8	50	29	.....	.....	3	95
Dundas	.....	.....	.....	.....	.....	1	2	1	.....	.....	7	11
Durham	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	2
Frontenac	7	26	11	39	12	57	29	75	44	.....	34	334
Glengarry	.....	.....	.....	.....	1	1	2	1	.....	.....	.....	5
Grenville	.....	.....	1	.....	7	.....	2	2	1	.....	1	14
Haldimand	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	1
Hastings	.....	.....	1	1	.....	7	3	7	.....	.....	2	21
Lanark	2	.....	6	1	2	4	3	4	.....	.....	.....	22
Leeds	.....	.....	3	4	7	15	11	23	1	.....	32	96
Lennox & Addington.	.....	....,	1	.....	1	7	4	6	.....	.....	7	26
Nipissing	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Northumberland	.....	.....	.....	.....	.....	1	1	5	1	.....	.....	8
Peterboro'	.....	.....	.....	.....	.....	1	.....	.....	1	.....	4	6
Prescott	.....	.....	.....	.....	1	1	1	.....	.....	.....	6	9
Prince Edward	.....	.....	.....	.....	1	1	.....	.....	.....	.....	2	4
Renfrew	.....	4	4	6	8	14	2	.....	1	.....	4	43
Russell	.....	.....	.....	.....	.....	3	2	3	.....	.....	8	16
Simcoe	.....	.....	.....	.....	.....	.....	3	6	1	.....	.....	10
Stormont	.....	.....	.....	.....	1	4	1	2	1	.....	4	13
Victoria	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Welland	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Wentworth	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	2
Waterloo	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Totals	9	30	27	52	50	133	116	164	51	.....	115	747

Report from Laboratory of Provincial Board of Health at Kingston, for months of July, August, September, 1912.

Municipalities.	Diphtheritic Swabs.				Tuberculous Sputa.		Typhoid Bloods.		Miscellaneous Specimens.	Waters.		Total Number for Quarter.
	Release.		Diagnosis.							Chemical.	Bacterial.	
	+	−	+	−	+	−	+	−				
Algoma—												
Massey Station				1								1
Bruce—												
Paisley						2						2
Carleton—												
Manotick						1	1					2
North Gower					1		1	2			3	7
Ottawa					4	7	46	26				83
Richmond							2					2
Vernon								1				1
Dundas..												
Chesterville											4	4
Winchester						1	2	1			3	7
Durham—												
Orono					1	1						2
Frontenac—												
Barriefield									1		8	9
Harrowsmith								2				2
Kingston	7	26	11	39	12	56	27	65	36		23	302
Portsmouth								3	7			10
Sharbot Lake											1	1
Sydenham						1						1
Verona							2	4			2	8
Wolfe Island								1				1
Glengarry—												
Maxville						1	2	1				4
Williamstown					1							1
Grenville—												
Kemptville					5		1				1	7
Prescott			1				1	2				4
Spencerville					2				1			3
Haldimand—												
Hagersville											1	1
Hastings—												
Bancroft						1		2				3
Belleville			1	1								2
Hastings							1	1				2
Marlbank						1	1	2				4
Roslin						1						1
Stirling								1			2	3
Shannonville						2	1	1				4
Trenton						2						2
Lanark—												
Almonte						1						1
Perth	2		3	1								6
Smith's Falls			3		2	3	3	4				15
Leeds—												
Athens						1					1	2
Brockville					3	8	5	10			24	50
Chaffey's Locks											4	4
Delta			1				1		1			3
Gananoque					2	3	1	7				13
Lansdowne			1	2	1	2	3	4				13
Lyn								1			2	3
Mallorytown			1	2		1	1	1				6
Seeley's Bay											1	1
Westport					1							1

Report from Laboratory of Provincial Board of Health at Kingston, for months of July, August September, 1912.

Municipalities.	Diphtheritic Swabs.				Tuberculous Sputa.		Typhoid Bloods.		Miscellaneous Specimens.	Waters.		Total Number for Quarter.
	Release.		Diagnosis.							Chemical.	Bacterial.	
	+	−	+	−	+	−	+	−				
Lennox & Addington—												
Bath						1						1
Enterprise						1		3				4
Napanee					1	4	2	1			1	9
Newburg						1						1
Odessa							1	1			1	3
Stella			1				1				4	6
Tamworth											1	1
Yarker								1				1
Northumberland—												
Campbellford								1				1
Castleton								3	1			4
Port Hope						1	1	1				3
Nipissing—												
Cochrane						2						2
Prescott—												
Fournier							1				2	3
St. Armour					1	1						2
Vankleek Hill											4	4
Peterboro'—												
Lakefield						1						1
Peterboro'									1		3	4
Warsaw											1	1
Prince Edward—												
Picton					1	1					2	4
Renfrew—												
Arnprior											3	3
Cobden						1	2				1	4
Douglas				1								1
Pembroke					4	3			1			8
Renfrew		4	4	4	4	10						26
Westmeath				1								1
Russell—												
Metcalfe						3	2	3			8	16
Simcoe—												
Barrie							3	6	1			10
Stormont—												
Avonmore					1				1			2
Cornwall								1				1
Finch						4					4	8
Newington							1	1				2
Victoria—												
Lindsay					1							1
Welland—												
Niagara Falls S					1							1
Wentworth—												
Ancaster						1						1
Lynden					1							1
Waterloo—												
Preston						2						2
Totals	9	30	27	52	50	133	116	164	51		115	747

REPORT FROM LABORATORY OF PROVINCIAL BOARD OF HEALTH AT KINGSTON FOR MONTHS OF OCTOBER, NOVEMBER, DECEMBER, 1912.

Municipalities.	Diphtheritic Swabs.				Tuberculous Sputa.		Typhoid Bloods.		Miscellaneous Specimens.	Waters.		Total Number for Quarter.
	Release.		Diagnosis.							Chemical.	Bacterial.	
	+	−	+	−	+	−	+	−				
Algoma	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	2
Bruce	.....	.....	.....	.....	.....	1	.....	3	.....	.....	.....	4
Carleton	.....	.....	.....	.....	2	6	6	16	.....	.....	.....	30
Dundas	.....	.....	.....	.....	.....	2	2	.....	.....	.....	2	6
Essex	.....	.....	.....	.....	.....	1	1	.....	.....	.....	.....	2
Frontenac	13	35	8	45	20	54	15	52	34	.....	190	466
Glengarry	.....	.....	.....	.....	.....	4	1	.....	.....	.....	.....	5
Grenville	1	3	4	11	1	2	1	2	.....	.....	.....	25
Hastings	.....	.....	4	2	1	8	.....	7	.....	.....	.....	22
Kent	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Lanark	.....	.....	3	12	5	5	1	7	.....	.....	.....	33
Leeds	.....	.....	.....	1	2	20	9	10	1	.....	6	49
Lennox & Addington.	.....	.....	1	2	2	11	4	4	.....	.....	3	27
Northumberland	1	2	.....	1	.....	3	3	3	.....	.....	.....	13
Peterboro'	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	2
Prescott	2	2	1	.....	1	.....	.....	.....	.....	.....	.....	6
Prince Edward	.....	.....	....	.....	1	4	.....	.....	.....	.....	1	6
Renfrew	1	2	7	9	5	5	1	1	.....	.....	8	39
Russell	.....	1	1	1	.....	3	.....	3	.....	.....	.....	9
Simcoe	.....	.....	.....	.....	.....	1	7	7	.....	.....	.....	15
Stormont	.....	.....	.....	.....	1	4	.....	1	.....	.....	.....	6
Waterloo	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Totals	18	45	29	84	41	137	52	119	35	.....	210	770

Report from Laboratory of Provincial Board of Health at Kingston for Months of October, November, December, 1912.

Municipalities.	Diphtheritic Swabs.				Tuberculous Sputa.		Typhoid Bloods.		Miscellaneous Specimens.	Waters.		Total Number for Quarter.
	Release.		Diagnosis.							Chemical.	Bacterial.	
	+	−	+	−	+	−	+	−				
Algoma—												
Massey								2				2
Bruce—												
Paisley						1		3				4
Carleton—												
North Gower						1						1
Ottawa					2	5	6	14				27
Richmond								2				2
Dundas—												
Chesterville						1						1
Morrisburg						1	1					2
Winchester							1				2	3
Essex—												
Essex						1	1					2
Frontenac —												
Barriefield											33	33
Flinton						1		1				2
Harrowsmith				1		1	1	2				5
Kingston	13	35	8	44	16	50	11	41	27		154	399
Portsmouth					3	2		5	7		2	19
Sydenham					1							1
Verona							3	2			1	6
Wolfe Island								1				1
Glengarry—												
Alexandria						1						1
Dalhousie Mill						1						1
Lancaster						1						1
Maxville							1					1
Williamstown						1						1
Grenville												
Jasper								1				1
Prescott	1	2	3	11	1		1	1				20
Spencerville		1	1			2						4
Hastings—												
Bancroft						2						2
Belleville			3	2		1		1				7
Marlbank						2		2				4
Roslin					1	1		2				4
Stirling								1				1
Shannonville			1					1				2
Tweed						2						2
Kent—												
Blenheim						1						1
Lanark—												
Almonte					1							1
Perth			2	5	1	1						9
Smith's Falls			1	7	3	4	1	7				23

Report from Laboratory of Provincial Board of Health at Kingston for Months of October, November, December, 1912.—*Continued.*

Municipalities.	Diphtheritic Swabs.				Tuberculous Sputa.		Typhoid Bloods.		Miscellaneous Specimens.	Waters.		Total Number for Quarter.
	Release.		Diagnosis.							Chemical.	Bacterial.	
	+	−	+	−	+	−	+	−				
Leeds—												
Brockville	.....	.....	.....	.....	1	6	5	6	.....	.....	6	24
Delta	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Gananoque	.....	.....	.....	.....	.....	5	1	.....	1	.....	.....	7
Lansdowne	.....	.....	.....	1	.....	6	1	2	.....	.....	.....	10
Lyn	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Mallorytown	.....	.....	.....	.....	1	.....	2	1	.....	.....	.....	4
Newboro'	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Seeley's Bay	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Lennox & Addington												
Bath	.....	.....	1	.....	.....	.....	1	.....	.....	.....	.....	2
Enterprise	.....	.....	.....	.....	1	4	.....	1	.....	.....	.....	6
Napanee	.....	.....	.....	2	.....	5	2	2	.....	.....	1	12
Newburgh	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	.....	1
Tamworth	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Yarker	.....	.....	.....	.....	.....	.....	1	1	.....	.....	2	4
Northumberland—												
Campbellford	1	2	.....	.....	.....	1	.....	2	.....	.....	.....	6
Janetsville	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Port Hope	.....	.....	.....	.....	.....	1	2	1	.....	.....	.....	4
Roseneath	.....	.....	.....	1	.....	.....	1	.....	.....	.....	.....	2
Peterboro'—												
Peterboro'	.....	.....	.....	.....	.....	.....	1	1	.....	.....	.....	2
Prescott—												
Fournier	2	2	1	.....	1	.....	.....	.....	.....	.....	.....	6
Prince Edward—												
Picton	.....	.....	.....	.....	1	2	.....	.....	.....	.....	.....	3
Wellington	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	1	3
Redfrew—												
Arnprior	.....	.....	1	2	.....	.....	.....	.....	.....	.....	7	10
Cobden	.....	.....	.....	1	.....	1	1	1	.....	.....	1	5
Douglas	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Pembroke	.....	.....	.....	.....	1	1	.....	.....	.....	.....	.....	2
Renfrew	1	2	6	6	4	2	.....	.....	.....	.....	.....	21
Russell—												
Metcalfe	.....	1	1	1	.....	3	.....	3	.....	.....	.....	9
Simcoe—												
Barrie	.....	.....	.....	.....	.....	1	7	7	.....	.....	.....	15
Stormont—												
Cornwall	.....	.....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Finch	.....	.....	.....	.....	1	2	.....	.....	.....	.....	.....	3
Newington	.....	.....	.....	.....	.....	1	.....	1	.....	.....	.....	2
Waterloo—												
Preston	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Totals	18	45	29	84	41	137	52	119	35	.....	210	770

Provincial Board of Health of Ontario Experimental Station

BULLETIN No. 1

Factors in the Design, Regulation and Action of Slow Sand Filters

BY

F. A. DALLYN, B.A.Sc., C.E. (Tor.)

Provincial Sanitary Engineer

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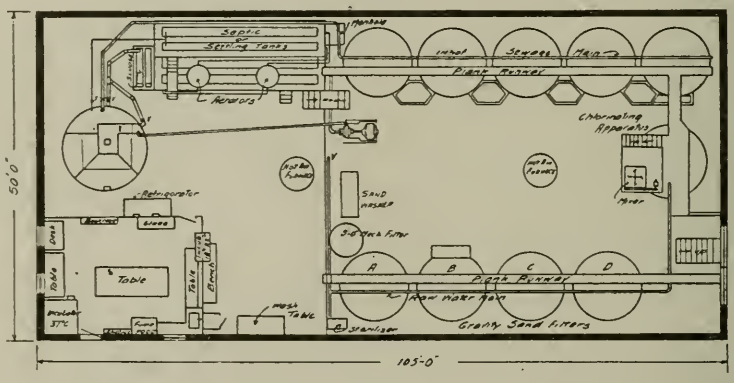
(Fig. 3 shows gauge arrangement for reading loss of head.)

PROVINCIAL BOARD OF HEALTH OF ONTARIO

EXPERIMENTAL STATION

LAYOUT

1912



F. A. Dallyn
ENGR IN CHARGE

FACTORS IN THE DESIGN, REGULATION AND ACTION OF SLOW SAND FILTERS.

(Does a properly operated filter give absolute safety to a water supply?)

TORONTO, April 1st, 1913.

GENTLEMEN.—I have the honour to transmit herewith Bulletin No. 1 of the Experimental Station, which gives the results of investigations relating to the design, regulation, and action of slow sand filters.

Your obedient servant,

FREDERICK ALFRED DALLYN,

Engineer in Charge of Experimental Station,

Chairman, Members,
Provincial Board of Health, Ont.

INTRODUCTION.

At this present time of stock-taking in public health measures it is proper that certain facts in connection with the protection of our water supplies, more particularly those facts relating to slow sand filtration, be presented, and that certain principles involved therein be elaborated.

In connection with slow sand filtration there exists reliable data from which to draw certain conclusions. We know that slow sand filters protect a water supply to a remarkable extent from epidemics of water-borne infectious diseases such as cholera, typhoid, dysentery and diarrhœa. We know that the bacterial removal effected by such filters is generally greater than 97 per cent., and quite frequently as high as 99.7 per cent.

There remain certain other things upon which judgment is withheld. Among them is the subject to be discussed in this present paper, which is:

Does a properly operated filter with an average bacterial removal of 99.7 per cent. give absolute safety to a water supply irrespective of the character of the raw water or can we filter a dilution of our own and our neighbors' sewage with absolute assurance of protection from typhoid and diarrhœa, when using such filtrate as our water supply?

The apparent existence of residual typhoid fever in towns filtering a periodically infected water supply served to incite the Provincial Board of Health of Ontario to conduct a series of experiments upon slow sand filtration in order to determine just what protection filters afforded.

It was found necessary to approach the problem in an indirect fashion, since one does not know how few pathogenic organisms may constitute an infection, nor what pathological conditions are involved in normal susceptibility to invasions. It has appeared justifiable to assume that absolute protection exists only when the pathogenic organisms are entirely eliminated from the water supply. In the present work it was necessary for convenience to use organisms associated with pathogenic organisms as the measurers of efficiency, and to assume that organisms like B. Coli, Sporogenes Enteridites and Sewage Strepti-cocci, in coming through a filter from the applied water behave as would pathogenic organisms, with possibly certain restrictions as to longevity.

It may appear strange to some that no mention is made of disinfection methods and apparatus which have of late been attached to so many filter plants. The data presented in the attached appendices is primarily evidence as to the reason for disinfection and, it is hoped, an argument for lesser contamination of our sources of water supply.

When filters will not render safe an infected supply without resort to disinfection, is it not high time that the dumping of human excreta bearing the infectious matter into the sources of water supply be rigidly restricted?

It is not complimentary to our civilization, nor pleasant for our citizens to realize that the inhabitants of many municipalities are drinking dilutions of fresh human excreta simply because ratepayers refuse to countenance the expenditure necessary (from $2.50—75c. per capita per year) to treat and disinfect these wastes of human civilization.

In studying the action of the experimental filters some interesting data was obtained (other than that bearing directly upon the main problem) which show the internal resistances existing in the sand throughout the filter, loss of head due to surface clogging and Schmutzdecke formation, and some information with respect to effect of storage.

In presenting the numerous appendices I wish to acknowledge the painstaking and careful work of Frank W. Schofield, D.V.S., who was Assistant Bacteriologist at the Experimental Station during a great portion of period herein reported upon; and to acknowledge the helpful criticism of Dr. J. A. Amyot, Director of the Laboratories of the Provincial Board of Health of Ontario, upon the collection of data and arrangement of apparatus during these experiments.

Description of Apparatus.

The *Sand Filters,* four in number, are circular stave tanks (made from 2-inch cypress) 10.5 feet inside diameter and 8 feet deep. Each tank has a surface filtering area of 1/500 of an acre. The filtering media consists of 13 inches of graded gravel supporting 3½ feet of sand. The analyses of the sands used at various times are given on Graphs No. 9 to 14 and Chart No. 3.

Each tank is provided with loss of head gauges, metal tubes running horizontally and radially from the centre to the sides of the tank and terminating on the outside and at right angles in glass tubes. These are placed at different levels, enabling an observer to note the loss of head for several depths. The head of water on the sand was controlled by an overflow and regulated by a valve at each tank. The rate of filtration was fixed by orifices set in a measuring box which gave a known discharge under fixed head. The flow to the measuring box was controlled by a 2½ in. valve, which during certain parts of the run required setting twice a day; normally it was not touched more than once in three or four days, depending upon loss of head due to Schmutzdecke formation.

The Laboratory was only equipped for bacteriological investigations in the early experiments, but was remodeled 1910-1911 to permit of investigations into sewage purification changes. The bacteria incubators were both of primitive construction but very efficient in action. A blue print of their construction is included herewith. A hot air sterilizer was provided to sterilize the glassware (petri dishes and pipettes). A temperature of 180 to 210 degrees C. was used from forty-five minutes to one hour to effect this. When the spores of the Hay Bacillus interfered with operations, the trouble was always overcome by using a temperature of 210 degrees C. for sterilization.

The Media was prepared at the Provincial Laboratories according to Standard methods governing the same. Plain Agar was used for nearly all the work both at 18-22 degrees C. temperature and for 37 degrees C. Litmus-Lactose Agar and Saffranin-Lactose Agar were used only for special investigations. The fermentation tests were made using Saffranin Lactose Broth. Reactions showing change of color and proper gas production (over 25 per cent.) being reported as positive.+

(—) Gas production without color change and — color change with out gas, similarly.

The media was sterilized in Autoclave sterilizers at the Provincial Laboratories and sent to the Experimental Station in special cases.

The Technique used in plating and in making broth cultures was standard. The Agar was cooled to between 38 and 41 degrees C. before pouring. The inoculation of tubes was made with the aid of well sterilized glassware and was performed with every effort directed towards the minimizing of possibility of contamination. The incubator temperature was carefully watched. The raw and filtered water samples were both subject to the same influences of technique and incubation in order to make strict comparisons. The 37-degrees plates were incubated for 24 hours before counting. The 18-22 degrees plates were incubated for 48 hours before counting. The Colon Bacilli were reported from the presumptive test (incubation for 48 hours at 37°C.).

The initial studies of bacterial removal, or rather of the count variation in the effluent from the four slow sand filters, were begun in September, 1909, and continued to April, 1910. The variations present were apparently without any definite relation, hence it was deemed advisable to continue this preliminary work.

Mr. F. H. Chestnut, B.A.Sc., was in charge of the Experimental Station during this period, resigning in April, 1910.

The results from the second series of investigations cover the period between April, 1910, to March, 1911. Many interesting phenomena were observed in this period, some of which were apparently duplications of those existing in the earlier period. Certain relations were suspected, and in general the normal behaviour was becoming more apparent. In order to show this behaviour more conclusively, certain modifications to the existing apparatus became necessary; these were made.

The results of operations from March, 1911, to July, 1912, are the most complete and valuable of the series. They cover to a very large extent the hygienic aspect of filter behaviour. The studies are hardly more than synopsised in this report. The arrangement of the report, while open to many objections, seemed the best in which to present the bacterial data. Every effort has been made to incorporate all this data into the attached appendices and to handle the text in such fashion as to make this data available.

Normal Count Variation: The initial studies covering a period of seventeen months, September, 1909, to March, 1911,—Appendix A—exhibit many instances of abrupt count variation. Graph No. 1 shows this to some slight extent and shows also the absence of any relation between the four filter units in reference to bacterial count. The periodic appearance of B. Coli in filter effluent can be readily observed by glancing over several sheets in the early studies of Appendix "A." It will be further observed that *Colon comes through periodically in considerable quantity—in quantity sufficient for a sanitarian to question the safety of the water during that interval* (if the known origin of the B. Coli organisms was fresh sewage contamination where associates like B. Typhoid and B. Diarrhœa could be present).

Graph No. 1.

Solid lines platted from filter counts.
Dotted lines platted from raw water.

CHART No 1.

BACTERIAL EFFICIENCY OF ALBANY FILTERS

DECEMBER, 1902

DATE	RAW WATER	FILTER								PURE WATER
		1	2	3	4	5	6	7	8	
	Bacteria	Bacteria	Bacteria	Bacteria	Bacteria	Bacteria	Bacteria	Bacteria	Bacteria	Bacteria
1	25000	300		60	23	25	40	200	21	34
2	30000	150		50	26	23	55	175	25	4
3	33000	350		45	23	33	31	350	21	70
4	24000	400		36	24	21	25	250	24	65
5	40000	450		40	18	29	44	200	17	80
6	65000	575		60	30	38	34	240	31	95
8	75000	500	30	75	20	30	60	175	23	120
9	60000	600	50	75	20	48		325	24	140
10	80000	550	350	50	40	35		350	280	180
11	75000	500	400	60	35	30	400	250		150
12	90000	650	800	180	48	100	1100	175		275
13	115000	700	900	200	25	120	1400	225		350
15	140000	800	650	150	55	110	1200	200	500	475
16	180000	900	700	100		90	1500	250	600	500
17	160000	750	800	80		60	950	180	400	500
18	125000	600	700	65		45	900	125	1000	375
19	120000	500	750	70	250	50	850	90	1000	350
20	90000	500	650	100	320	45	700	65	800	400
22	40000	500	550	45	600		650	70	800	500
23	100000	300	175	60	500		325	55	450	300
24	120000	500	350	35	1100		200	80	650	500
26	65000	550	400	60	900	300		70	500	450
27	50000	400	450	60	700	600		50	500	475
29	70000	300	250		200	600	700	50	300	350
30	42000	300	200		400	700	800	45	140	300
31	50000	250	275		350	550	850	45	300	300

BUREAU OF WATER ANNUAL REPORT 1903.

Chart No. 1 is also submitted showing the normal behaviour of Albany filters for December, 1902; in it one observes that, while one unit is practically removing all the bacteria present in the raw water, other units are not so successful and that conditions reverse themselves. In other words, while the efficiency—average percentage removal—is good (or high), the irregularities are numerous even in these few observations. These irregularities must, I believe, be considered normal for filter operations. From the results tabulated in Appendix "A," it is to be observed that the irregularities of two units are not usually coincident with one another, nor are they of any great duration. In all probability this variation is due to imperfect filtration through or retention on part of the unit—supposing only 10 per cent. of a filter unit was working inefficiently, the raw water count being 5,000 and the filter effluent count being 50—average efficiency 99 per cent. removal. From observations extending over several months we note the removal to have been 99.5 per cent. This decrease in efficiency of ½ of 1 per cent. is then due to the action of 10 per cent. of the unit (filter bed), which means that from one part of the bed we get a count of 275 bacteria per cc. The effect on Colon determinations would be slight because, if colon were present in 5 cc. corresponding to 275 bacteria per cc. the mixed flow from the unit would still only show Colon present in 23 cc. instead of 25 cc. More bad types could be present due to imperfect filtration than if the whole bed acted alike, because other factors, such as longevity of the organisms, help out in the one case but not in the other.

From the preceding paragraph one should carry in mind that a change in the bacterial removal efficiency of a filter may mean a considerable change over part of the units, or a small change over the entire area, more probably the former.

It is justifiable to consider municipal units,—that is, those of an acre in extent—as behaving as a summation of small units 1/500 of an acre in extent. The ten-minute variation of the large units might not present the same irregularities as experimental filters discussed here, but the daily behaviour of the municipal units would, however, present similar variations.

When the infectivity of the source of supply is periodically high, these variations when coincident with maximum infectivity (as will be shown later) present danger. It would appear, therefore, that municipal plants could give best protection when of largest extent or when operated at low rates and associated with greatest storage after filtration (we speak of storage ranging from three to four hours to three days—not the English periods of from three to four weeks) in which the count variation and infectivity would be reduced to very flat curves.

It has been suggested that filter units can be cut out when running irregularly; for the following reasons this is not feasible except in exceptional cases:

(*a*) The bacterial count investigations seem to suggest the short duration of these normal irregularities.

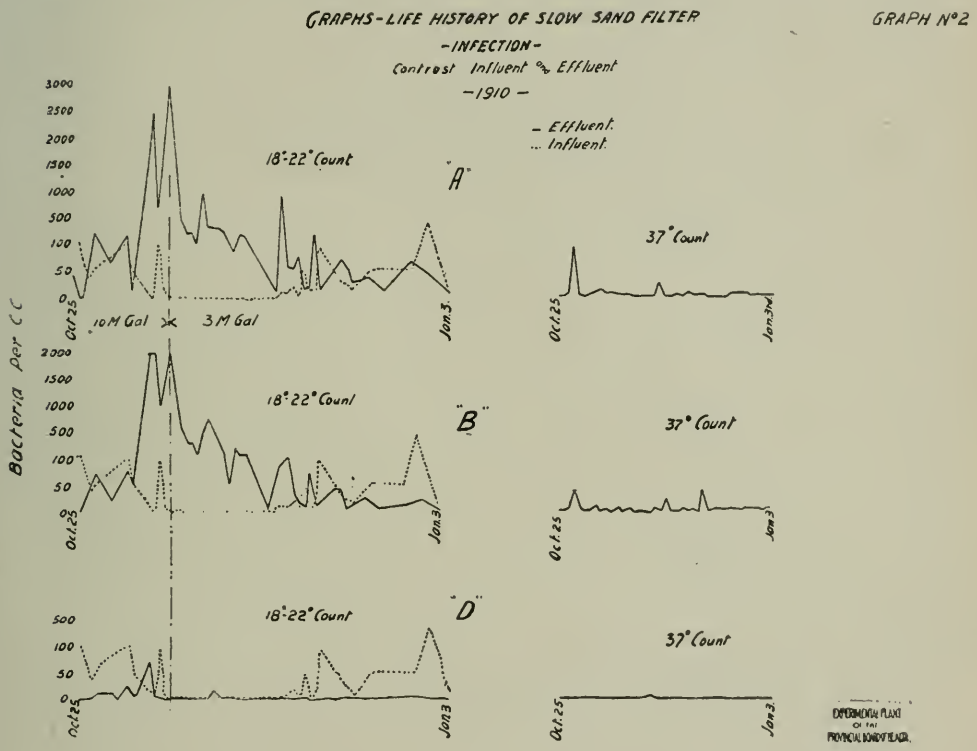
(*b*) The laboratory, and consequently the evidence of irregularity, is always 24 hours, frequently 48 hours, behind the filters.

(*c*) The units are expensive of construction, hence continuous operation is imperative from an economic standpoint.

We had best, therefore, turn to large storage reservoirs (up to three days' supply) to get rid of normal count variations and possible infection; using dilution instead of protecting with manipulation and multiplication of filter units.

Abnormal Count Variations.

1. The least important but most conspicuous of these is that which has been called "Filter Infection" shown on Graph No. 2. Its conspicuousness will readily be granted on account of its duration and character. Graph No. 2 indicates the behaviour of three filters, A, B, and C, each 1/500 of an acre in area and containing the same character of sand. The infection in D was more apparent at an earlier date, which can be verified by referring to Appendix "A" containing the laboratory report on this filter.



For convenience, the raw water or influent count has been plotted as well as the effluent count; it is at once noted that more bacteria are coming through than are present in the applied water, and this continues over a period of about two months. The 37° count, it will be observed, remains rather uniform in character over this period. The only possible explanation is that certain bacterial forms were multiplying in some region of the filter and were being carried away in large numbers by the flow of water downward through th filter media.

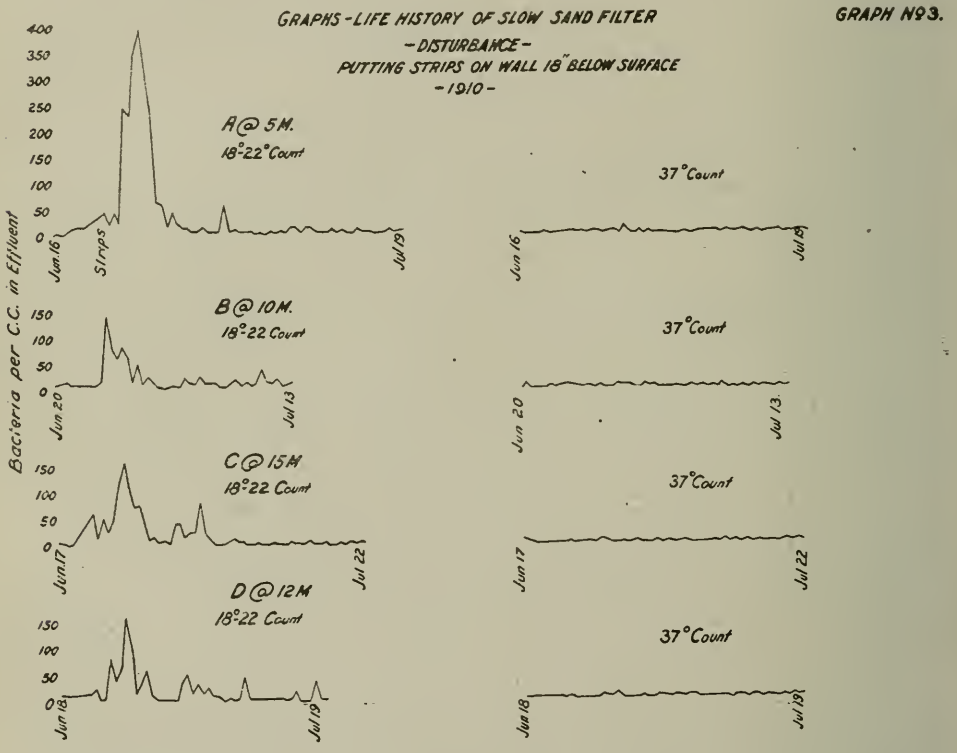
It is idle in this present paper to speculate as to whether the cause of the high count was owing to changing organic content of the water favoring some bacterial forms constantly present in the filter, or to the entrance of some special form which found ideal conditions for multiplication existing in the filter media.

These rapid growing water bacteria have no pathogenic significance, and their presence in a water supply can in no way constitute a menace to public health.

2. The second observed irregularity is termed "Disturbance," and can be divided into the two classes considered herein:

(*a*) Disturbance due to repairs below the sand level, in this case the placing of strips 18 in. below the sand level to prevent side slip, necessitating drainage of the sand with subsequent digging and displacement.

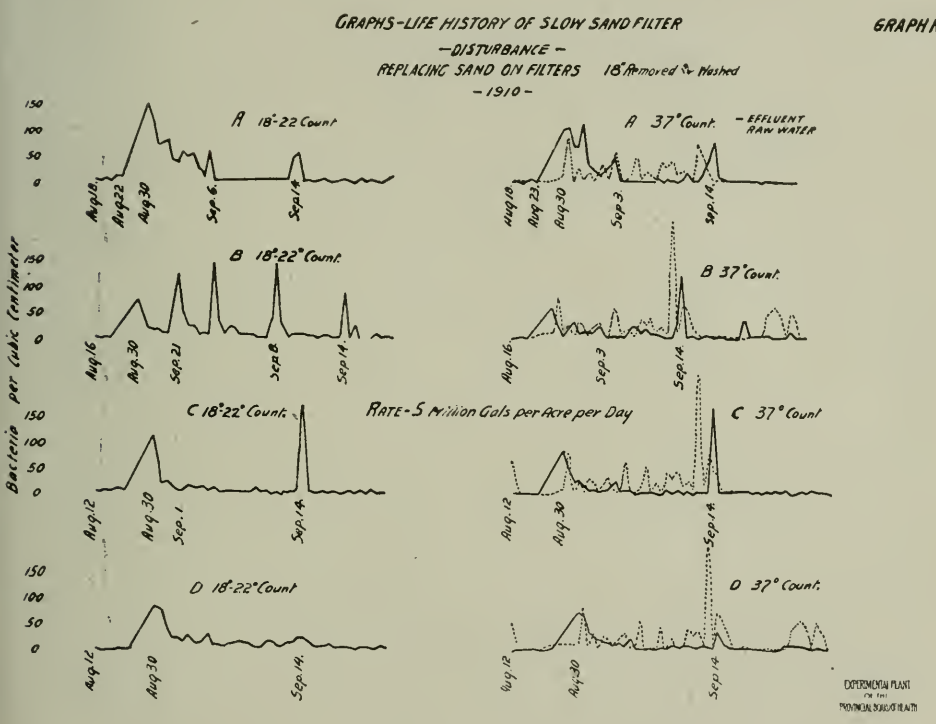
(*b*) The disturbance occasioned by removing several inches of sand (washed prior to replacement) then replacing it and additional sand necessary to bring the bed up to its original thickness of filter media. (In some plants before renewing the sand after a loss of depth due to Schmutzdecke removal operations—of approximately 9 in. to 12 in.—several inches may or may not be removed and washed to prevent subsurface clogging.)



Graph No. 3 is plotted from a disturbance of character (*a*). From examination of the four filter behaviours it seems probable that the loss of efficiency was due either to a washing through of organisms previously existing in the filter together with some of those placed there by the workman's boots and clothing, or to sporadic growth from inoculated forms during the workman's operations. From the fact that the 37° count was entirely unaffected and since the sand was disturbed to within 8 in. of the gravel, the former is probably the closer approximation to the truth.

Graph No. 4 is plotted from a disturbance of character (*b*). Irregularities of this character are the most serious yet mentioned. The efficiency variation is most erratic, showing considerable variation in the 37° count as well as in the 18-22° count. The disturbance indicated that, when the Schmutzdecke harboured any pathogenic organisms retained in the process of filtration, the organisms remaining in the sand after it was replaced on the filters found a way to the under drains and thence to the effluent box.

It is further to be deduced that, if for convenience and economy or some other reason highly contaminated water be used to wash such sand just before replacing it, the effluent will present strong evidence of this contamination coming through the filter for a period of varying duration after the renewal of operations.



From the foregoing information with reference to the effect of disturbances, we ought to insist upon several simple precautions in the interest of public health:

(*a*) To store all Schmutzdecke sand for at least one month before replacement.

(*b*) The Schmutzdecke sand to be washed—not just before replacing, but at the time of removal from the filters.

(*c*) The storage bins to be arranged so that sand first entering would be also removed first by means of hydraulic jets or other adequate devices.

(*d*) The several inches of sand removed just before re-establishing proper depth of sand to be treated as Schmutzdecke and not put back on the filter without storage, unless special bacteriological examinations have been made as to its freedom from pathogenic organisms or organisms as B. Coli associated with pathogenic organisms.

TAKING UP OF EFFICIENCY
Average raw water count = 13000 Bacteria per cc
Datum Filter A
Datum Filter B
Datum Filter C
GRAPHS - LIFE HISTORY - SLOW SAND FILTERS
B and C New Sand
B - Silica C - Carborundum Dry Sand
A old Sand Lake Washed
A Ammonia old B and C not Washed
Rate 5 Million Gals per acre per day
Mar 25th
Apr 6th
Apr 20th
Apr 26th
May 4th
May 13th
May 17th
May 23rd
May 25th
June 12th
June 18th
Mar 30th
Apr 6th
Apr 13th
Apr 26th
May 4th
May 13th
May 17th
May 23rd
May 31st
June 3th
June 12th
June 18th
Mar 30th
Apr 6th
Apr 13th
Apr 20th
Apr 27th
May 3rd
May 11th
May 17th
May 24th

(*e*) That special bacteriological examinations be made of the filter effluent when treating contaminated water before connecting the filter to the main pure water reservoir after re-establishing sand levels.

(*f*) A subsidiary reservoir to receive effluents pending results of bacterial examination would be of economic importance.

Owing to the press of other work and lack of laboratory assistanee very little further information was obtained as to the behaviour of the filters until March, 1911, when observations were recommenced under different conditions.

It was then possible to inoculate the raw water—Toronto tap water—with sewage. The sewage was run into the raw water control tank, fairly continuously in a very small stream (about 1-400). In order to eliminate any chance effect of residual free chlorine—the Toronto authorities were adding to the city water approximately .33 parts of available chlorine per million—the samples of the influent to the filters were taken from the water over the filters about 8 in. above the sand. The inoculated forms were subjected to the possible action of any residual chlorine present for approximately four hours before the collection of samples for bacteriological analysis. The effect of residual chlorine upon the efficiency of the filter can be dismissed as of no consequence; evidence to corroborate this can be obtained by examining the effluent counts during filter failure in Appendix "B."

The raw water and filtered water counts were determined from 18°-22° incubation, 37° incubation and quantitative determinations were also made for Colon bacilli. The three determinations for all samples—Appendix "B"—serving as a check on the character of the variation and illumined the hygienic significance of filter failure.

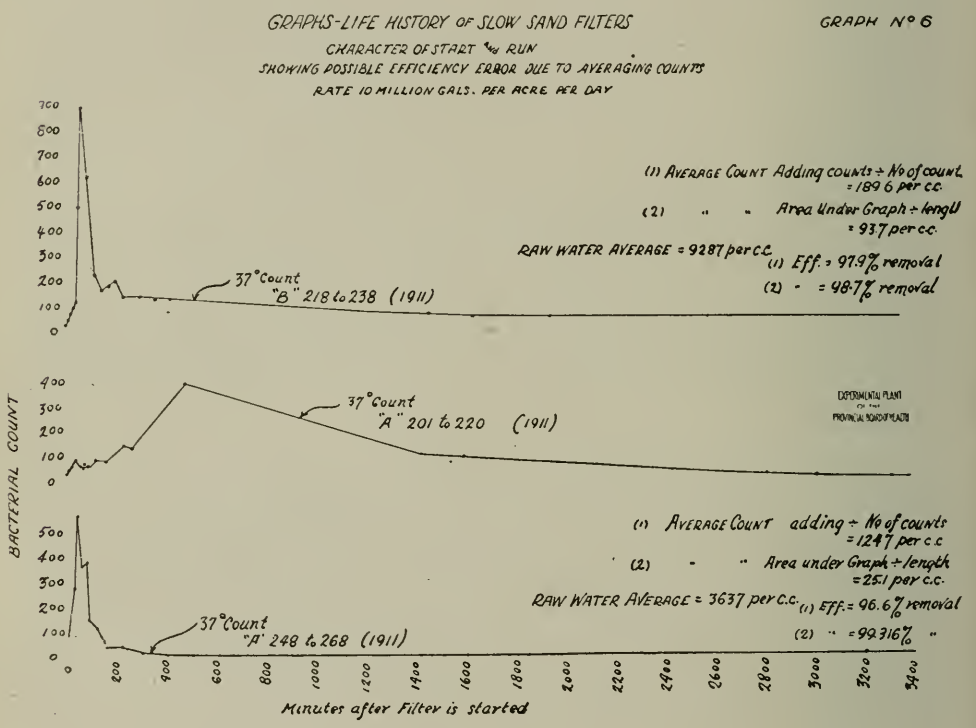
Graph No. 5. *Taking up of efficiency* is plotted from bacterial counts tabulated in Appendix "B." The slow sand filters were, at the time of application of infected water, known to be free of intestinal organisms. The effluent shortly after commencing operations, however, contained them; the manner in which they passed through the filter is unknown. The counts, as the straight line curve shows, were very irregular for what might be termed as "Ageing Period," after which the counts were such as to give 99.4 per cent. efficiency. The time required to complete this ageing is, in the writer's opinon, dependent entirely upon the organic matter attached to the sand particles, that is, upon the bacteria and organic matter in the raw water. Usually the organic matter of the sand from its previous environment is lost in subsequent washings and dryings, before the bed is put in operation. A somewhat similar case is presented when sewage is first turned into a sprinkling filter or intermittent sand bed. The maximum efficiency is not obtained until an organic growth has attached itself to the particles forming the nitrifying or straining bed.

Ordinary passage of water slowly through a media of sand appears to remove from 80 per cent. to 90 per cent. of the bacteria. The first part of Graph No. 5 indicates that peculiar conditions or arrangements of the sand or sand surfaces must come to pass before the purification is 99.4 per cent., such purification being only associated with a filter handling a raw water of high bacterial content (average about 10,000 per cc.), the bacterial types being numerous.

The maintaining of a 99.4 per cent. of efficiency is a delicate operation. In filter operations one finds numerous effluent counts well above the efficiency average.

This is well shown in Appendix "C," and is probably characteristic of all filter operations. Raw water and effluent counts appear to be somewhat sympathetic at times of filter disturbances. A consideration of the bacteriological reports in Appendices "A" and "B" shows this, as also Graph No. 1.

Graph No. 6 "*shows the character of start and run.*" These three straight line curves were plotted from the 37° count; this count practically eliminates the possibility of effluent being affected by multiplication of organisms in the filter sand or gravel. The sudden rise in count just at the beginning of the run is most remarkable. A proper efficiency seems to be established in about three hours.


GRAPHS-LIFE HISTORY OF SLOW SAND FILTERS
GRAPH N° 6
CHARACTER OF START & RUN
SHOWING POSSIBLE EFFICIENCY ERROR DUE TO AVERAGING COUNTS
RATE 10 MILLION GALS. PER ACRE PER DAY
(1) AVERAGE COUNT Adding counts ÷ No of count. = 189 6 per c.c.
(2) " " Area Under Graph ÷ length = 93.7 per c.c.
RAW WATER AVERAGE = 9287 per c.c.
(1) Eff. = 97.9% removal
(2) " = 98.7% removal
37° Count "B" 218 to 238 (1911)
37° Count "A" 201 to 220 (1911)
EXPERIMENTAL PLANT OF THE PROVINCIAL BOARD OF HEALTH
(1) AVERAGE COUNT adding ÷ No of counts = 1247 per c.c.
(2) " " Area under Graph ÷ length = 25.1 per c.c.
RAW WATER AVERAGE = 3637 per c.c. (1) Eff. = 96.6% removal
(2) " = 99.316% "
37° Count "A" 248 to 268 (1911)
BACTERIAL COUNT
Minutes after Filter is started

Graph No. 7 "Count Variation" shows a most unusual sympathy between the two temperature counts on the filter effluent. That such sympathy does exist at time is most conclusively shown by these two graphs. As a rule the difference in the 18°-22° count and the 37° count of the raw water prevents any such exhibition of sympathy in the effluent counts.

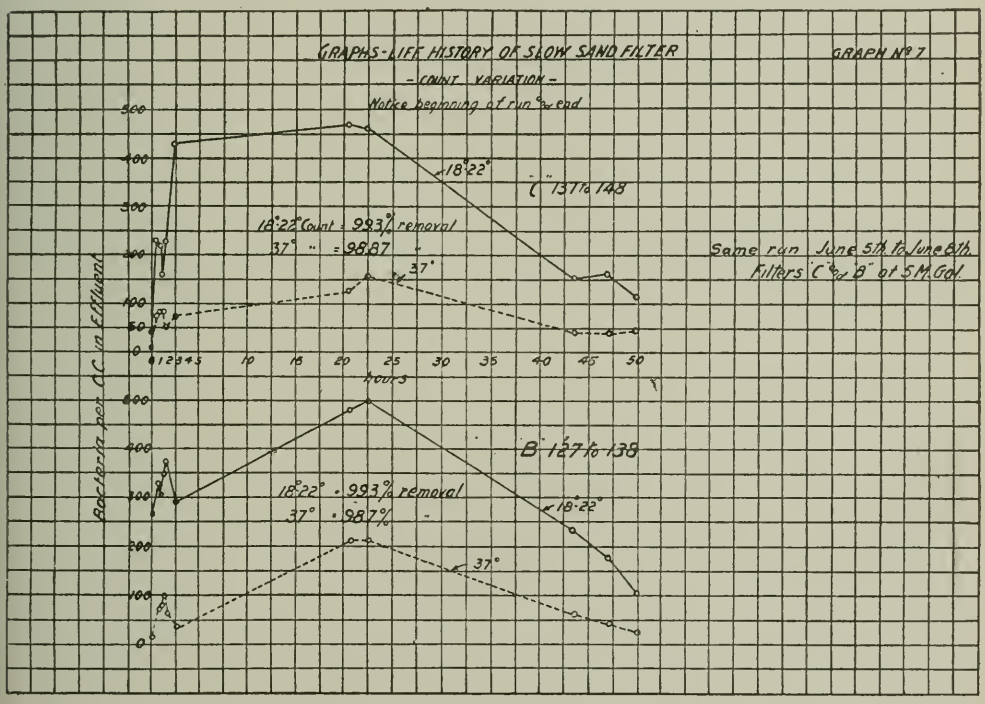
It would appear justifiable in concluding from the evidence presented in Graphs Nos. 4, 5, and 6 that organisms come through the filter and in a definite fashion.

This is what has been suspected for some time and what reports like that of Albany on Chart No. 1 leads one to believe. Owing, however, to the fact that count determinations had not been specific enough nor backed by 37° counts and quantitative colon tests, none would declare with confidence that a portion of the raw water organisms normally passed *through the filter,* the epidemiological evidences seeming to show the contrary.

We have sufficient experimental evidence in the attached appendices to warrant the statement that normally a varying portion of the raw water bacteria passes through the filters. If colon and typhoid organisms are present in the raw water, a certain proportion of them must pass through the filters and be present in the filter effluent; this proportion may be either greater or less than the bacterial efficiency of the filter.

The next problem of importance was to discover how long it took for organisms to pass through the 40 inches of sand acting as filter media.

One of the experimental filters was remodelled and special tubes inserted from the sides into the filter sand. A valve was placed at one end and a 150-mesh-to-the-inch screen at the other. The tubes were spaced at depths of 6 inches apart right down to the gravel. Samples could be taken from almost any zone in the filter media.



From the laboratory arrangement of inoculating the water with sewage to increase the bacterial count, a raw water could be fed to the filters which either contained or was free from intestinal bacteria at the operator's will. It was thus an easy matter to start the filter and run till all traces of intestinal bacteria were absent both from the effluent and applied water, and then to add sewage in small doses to the effluent and to watch the effluent very closely for first appearance of intestinal bacteria.

Appendix "D":

Table No. 1 shows this work.
Tables Nos. 2 and 3 show internal counts.

Quality of Effluent.

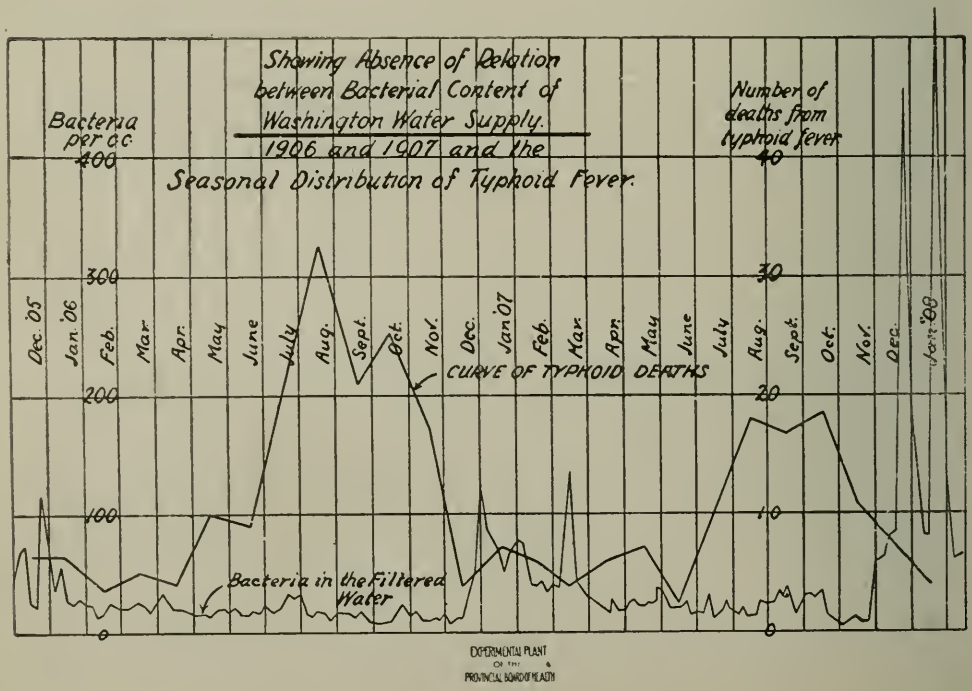
We must observe from Appendix "D" that the B. Coli organisms came through in some quantity within three hours. We, therefore, are compelled to admit that infective organisms would probably come through if present in the raw water in the same time interval.

Filter protection is not due to retention of the effluent organisms in the sand layers till a longevity factor causes extermination. The protection is absolute retention of the major portion of the organisms. The majority of the organisms present in the effluent may have been in the upper raw water three or four hours previously. We must rely for protection upon the number retained and not upon the character of those coming through. This leads us to another important factor in filter operation:

Quality of Raw Water or Relative Infectivity of the Raw Water Previous to Filtration.

A history of water-borne typhoid epidemics would not show that the epidemics were always coincident with an increased bacterial count of either raw or filtered water, but would of course be coincident with increased infectivity. Constant sewage pollution would give high counts and frequently epidemic diarrhœa, but would not give epidemic typhoid till the sewage contained the dejecta or excretions of typhoid patients or carriers. The presence of this infectious material need not increase the bacterial count, and might possibly be coincident with a lower bacterial count. This is true for a filter effluent as well as for any unfiltered or raw water.

GRAPH No 8.



Spencer Crosby in reporting upon the prevalence of typhoid in the District of Columbia concluded that the typhoid infection was not water-borne, because of its coincidence with maximum efficiency in the slow sand filters. (Graph No. 8.) No weight was placed upon the possibility of changing infectivity of the raw water—the Potomac River! Maximum infectivity can be coincident with maximum efficiency and with low effluent count.

Infectivity of Effluent.

It is interesting to note that Prof. Koch in 1893 in his report on "Water Filtration and Cholera" concludes that the process of water filtration at Altona had suffered disturbances such as to occasion a typhoid epidemic which could be ascribed to the water supply. It was further observed that the epidemics usually developed in connection with a long period of frost. Prof. Koch, finding parts of the filter frozen, attributed the failure and subsequent epidemic to freezing. This was not at all conclusive, as the bacterial evidence presented did not show more than what we have chosen to call "normal variation"—the efficiencies being over 97.4 per cent. in the worst instances of failure, while the average for that period was over 99.0 per cent.

At Neitleben, Prof. Koch found the filters had not prevented a severe cholera epidemic; the efficiency of these filters was 82 per cent.; the raw water was very highly infective. It is reasonable to assume that cases would have occurred with a 99.4 per cent. efficiency, owing to the amount of infection present in the raw water.

The argument is plain. If we can get severe epidemics at times when filter efficiencies run as low as 82 per cent. and become co-incident with maximum infectivity, then it is most assuredly proper to assume that residual typhoid must always exist in a community filtering a periodically infective raw water. The precautions now being taken by using disinfectants, together with filtration, show very clearly the trend of public health authorities' opinions.

Returning to the results from the experimental filters, take for example the chart in Appendix "D," Table No. 1. Filter No. B on June 24th at 10.00 a.m. The filter effluent count of bacteria growing at 37°C. is 4 per cc., but observe no colon in 100 cc. Whereas on June 25th at 3.30 p.m. the count for 37°C. was 0 per cc. and colon was present in 5 cc.—a water relatively 20 times more dangerous than the other. It will not do to dismiss the possibility of filter-typhoid when the raw water has periods of high infectivity. Supposing a municipality using an infected river water as a municipal water supply and with a typhoid death-rate of 85 per 100,000 (very high) has, after installing a good filtration plant, a typhoid death-rate of 22 per 100,000. If the rural rate throughout the district was down to 14 per 100,000, we would be much more justified in suspecting a residual typhoid rate from the filtered water than from external agencies, common alike to the urban and rural districts, providing of course that conditions are such as to exclude local fly and milk epidemics, which would disproportionately increase the death-rate for the community.

Knowing that filters do not absolutely protect a water supply, it behooves us at all times to seek the least infected source for water, even at a greatly increased expense; having procured that, to eliminate the major portion of the existing infection. This is the force behind the demand for disinfection of sewage.

The benefit of a lessened infectivity of their water supply will be most observable in those cities drinking dilutions of their own sewage—such as Chicago.

CHART No 2

TYPHOID CASES AND DEATHS FOR ALBANY (SHOWING EFFECT OF FILTRATION)

MONTHS	AVERAGES 1891-1899		AVERAGES 1900-1911		PERCENT REDUCTION	
	CASES	DEATHS	CASES	DEATHS	CASES	DEATHS
JANUARY	61·7	9·1	8·5	1·6	86·2	82·4
FEBRUARY	52·4	8·8	6·8	1·4	87·2	87·2
MARCH	63·7	10·2	6·4	1·9	89·9	81·4
APRIL	34·7	8·0	5·0	1·7	85·6	78·8
MAY	15·7	4·1	3·9	1·0	75·2	75·6
JUNE	13·4	3·2	2·7	1·3	79·8	59·4
JULY	18·4	3·2	5·0	1·3	72·8	59·4
AUGUST	34·0	6·6	13·0	3·0	61·8	54·5
SEPTEMBER	25·8	4·0	16·8	1·7	34·8	57·5
OCTOBER	30·7	3·6	9·3	1·5	69·7	55·5
NOVEMBER	37·2	4·6	6·0	2·3	83·9	50·0
DECEMBER	38·2	6·0	8·3	1·5	78·3	75·0
TOTALS	425·9	71·3	92·7	20·2	78·2	71·7

SEP. 6 1899 FILTERS STARTED
YEARS 1891-SEP 1899 2/3 SUPPLY UNFILTERED WATER HUDSON RIVER
" " 1/3 SUPPLY UNFILTERED GRAVITY SOURCE
YEARS 1900-1909 2/3 SUPPLY FILTERED HUDSON RIVER
" " 1/3 SUPPLY UNFILTERED GRAVITY SOURCE
MAY 7. 1910 TO DATE 96 PERCENT FILTERED

POPULATION CENSUS OF 1890 = 94923
" " " 1900 = 94151
" " " 1910 = 100253

BUREAU OF WATER 1911.

Cleveland, Toronto, and Zurich. The filtration of the water at Zurich, together with treatment of the sewage, decreased the typhoid rate in a graded way. The minimum rate was not obtained immediately after the installation of the filters—which changed the typhoid rate abruptly from approximately 65 to 18 deaths per 100,000. Lowest rates were obtained as the infectivity lessened from the decrease in the number of cases, and consequently decrease of infectious material in the sewage which contaminated the water supply, the minimum reached being 6 and less per 100,000.

Chart No. 2 shows the manner in which Albany's typhoid has been reduced by installing slow sand filters. Typhoid in Albany, as one will note, has by no means been eliminated. This is a city where it is fair to speak of residual typhoid. Disinfection apparatus has been added to the filter plant since 1911.

Bacterial Efficiencies.

The list of bacterial efficiencies obtained from the experimental filters during their entire period of operation is contained in Appendix "C."

The *"Percentage Removal"* is somewhat variable when the raw water is either normally or periodically low in count, and is helped out by abnormally high counts in the raw water. It is not reliable evidence when passing judgment upon the quality of the filter effluent, unless the maximum count is presented together with the average and backed by quantitative fermentation tests for B. Coli to 100 cc. When all this evidence is at hand, rational judgment based on the same can be pronounced.

Take for example the two runs of filter A—June 26th to June 30th, and July 4th to July 6th. In the former the percentage removal was 99.9 against 98.5 in the latter. The latter, while apparently showing considerably the best effluent, and having least eccentricity in the 18°-22° count, has on the other hand a 37° count entirely contradictory and more indicative of the true condition of the filter performance.

Both 18°-22° and 37° count averages are submitted and are self-explanatory. The dates correspond with the dates on Sheets of Appendices "A" and "B."

It was observed that irregularities in count occur as frequently after Schmutzdecke formation as at beginning of runs (6-100 hours after starting). The counts are not necessarily uniform between samples when two consecutive samples show approximately the same number of bacteria per cc. When comparing the results of filtration in Appendix "B," weight must be given to the character of the sand. Each filter contained a different sand.

The sand analyses are shown in Graphs Nos. 9, 10, 11, 12, 13, and 14. Chart No. 3 is a comparison of some sands used in slow sand filtration from which it is to be observed that the sands used at the experimental station were by no means unusual to municipal plants.

The results tabulated in Appendix "B," relating to Colon Bacilli removal, are very important and worthy of the closest study, bearing out what variations in infectivity may mean to a water supply.

The dates of periods when irregularities were present can be located by maximum counts on the monthly average sheets in Appendix "C" and examined in detail in Appendices "A" and "B."

Effects of Storage.

Counts showing the effects of storage were taken in those intervals when filters were resting prior to cleaning or before starting after cleaning. These counts show:

(*a*) There is usually no increase in the count due to storage after filtration at normal water temperature—(7.5°-13°C. Lake Ontario).

(*b*) Where an increase in count occurs during the period before starting after cleaning, it is usually also present in the 37° count, which would indicate that through some agency (possibly the sudden opening of the effluent valve in taking the samples) organisms came from the filter into the underdrains. These organisms could not have been carried down by water, because the filter was not being operated. Their release was probably due to resistance pressure changes in the filter, an increase in the effluent count apparently being normal after scraping or cleaning a filter.

It appears that storage of filtered Lake Ontario water would not be attended with multiplication of the bacteria normally present. An increase in a stored reservoir water count in 48 hours, above that due to unequal mixture, would indicate external contamination rather than multiplication of organisms present. Naturally the character of growth on the plate would be used as additional evidence to explain such a phenomenon.

The monthly average sheets of Appendix "C" contain considerable evidence relating to length of run. On them is marked the length of run in hours. The length of run was most irregular for the Toronto situation. The variation shown by these small units is most remarkable, the averages being disappointing from an economic standpoint. The amount of water passing per acre per run was very low as compared with Albany. The general average per acre per run from the experimental filters was 46,658,000 gallons, whereas Albany filtered 123,715,000 gallons per acre per run, year ending 1911, and 209,284,000 gallons per acre per run, year 1910. (Albany situation helped by pre-filters.)

The experiments show that other conditions than character of sand and amounts of turbidity present in the raw water affect the length of run. Two units of the same sand and filtering the same raw water exhibit wide variation. Variations are also present in the runs between scrapings for Albany Filters 1909-1910. Chart No. 4.

It was observed in connection with the experimental filters that, during the very short runs, the internal resistances behaved peculiarly, and

(1) That there was rapid loss of head at starting, the filter only running two or three days before cleaning was again required. The water on these occasions showed no marked turbidity and other filters operating at the same time were not appreciably affected.

(2) The gauge tubes indicating the internal resistances did not respond quickly to manipulations of the control valve.

(3) The surface layers showed a large loss of head over that usually considered as sand resistance. (This can be observed in loss of head per foot of sand in Appendix "F.")

(4) The water would not filter fast. Rates higher than ten million gallons per acre per day were not obtainable. At other times filtration as high as twenty million gallons per acre per day was readily obtained.

Occasional short runs are something that must be allowed for in the number of surplus units beyond actual requirements. Charts 4 and 5 compiled from the Albany reports give an idea as to the effect upon general operation.

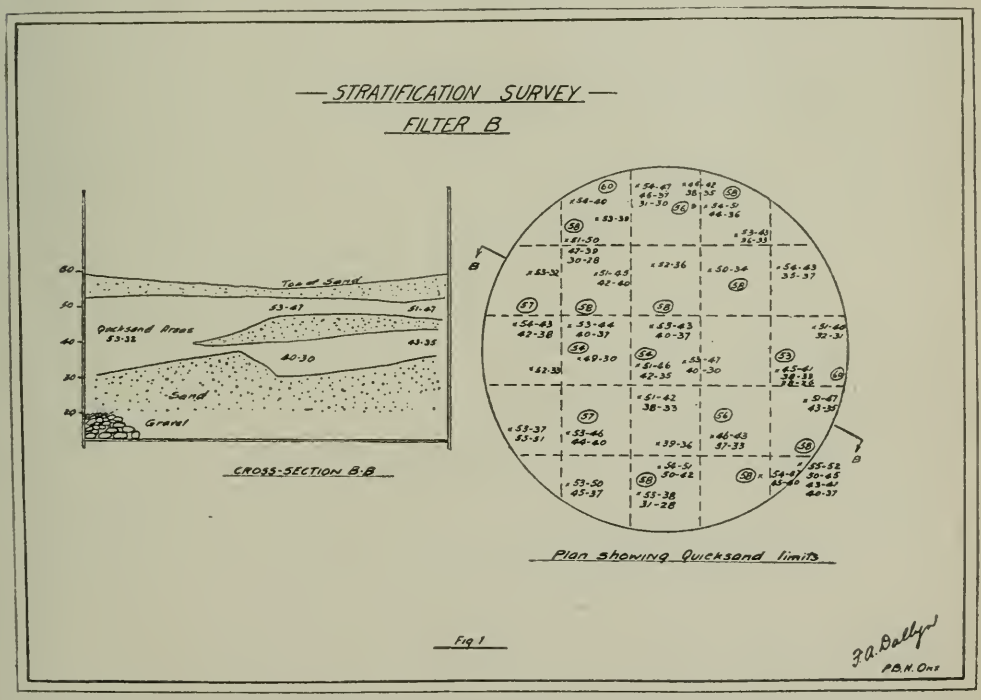
There are normally many stratification changes taking place in a filter. In probing a filter bed during the earlier experiments, certain areas were discovered to be of a quick-sand character. Tests were repeatedly made to determine whether these were normal, and it would appear that they are. Three different sands were used:

(*a*) Lake washed carbonate sand Eff. Size 23 M.M. Unif. Coeff. 1.5.

(*b*) A fine silica sand Eff. Size .166 M.M. Unif. Coeff. 1.84.

(*c*) A pit carbonate sand placed without washing Eff. Size .188 M.M. Unif. Coeff. 2.18.

The results of one probing is shown graphically in Fig. No. 1, which emphasizes the peculiar stratification. Stratification did not seem to cause any bacterial removal changes, but most undoubtedly affected resistance and length of run. Probing re-established effective head and caused a maintenance of head out of all proportion to the Schmutzdecke disturbance in probing.



Some new evidence was sought in connection with agencies causing changes in length of run. A measurement was made of what we have termed the *Filtration Openings,* or passage way for water through the sand, and determined by measuring the total voids and deducting therefrom capillary water held when the bed is drained. It was found that for the silica sand in Filter "B" the percentage void was 37.1 per cent. of total volume, and upon draining the volume of water obtained (measure of filtration opening) from these voids, it was only 1.68 per cent. of the total volume, or 4 per cent. of the total voids.

A mechanical filter sand was examined, Eff. size .39 M.M. Unif. Coeff. 1.6, in which the percentage voids was determined as equal to 40.7 per cent. of the total volume and the "filtration openings" as equal to 21.6 per cent. of the total volume, or 53.03 per cent. of the total voids. The two sands exhibit considerable difference in the relation of "filtration openings" to total voids.

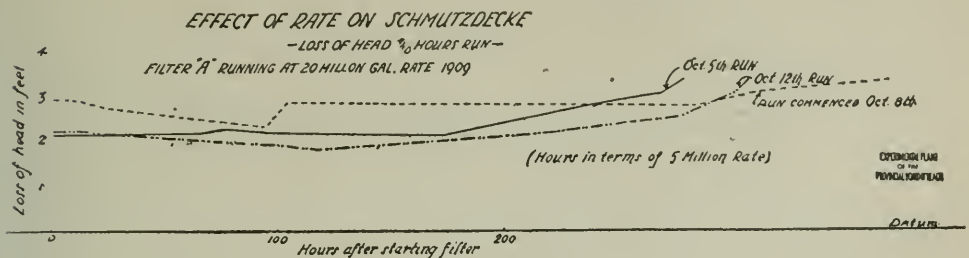
A third sand was used, that in Filter " C," Eff. size .188 M.M. Unif. Coeff. 2.18. The percentage voids were found to be 34 per cent. of total volume, the filtration openings 2 per cent. of the total volume or 7 per cent. of the total voids. Unfortunately, these experiments on " filtration openings " had to be temporarily abandoned.

It is reasonable to assume that greatest length of run will be associated with greatest per cent. of " filtration opening," and that where at all possible the sand be selected with that end in view, the eff. size being the limiting factor.

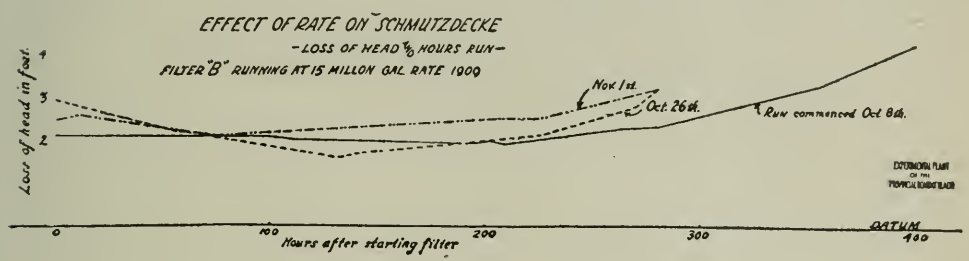
Schmutsdecke formation can be most easily observed by plotting the loss of head and hours run on Graphs such as Graphs Nos. 15, 16, 17, 18, 19, and 20. The abrupt change in the direction of the loss of head shows where the Schmutzdecke is beginning to influence loss of head. The curve ascends rather abruptly after this distinct change in direction. It has been stated before that proper bacterial efficiency from the filters is obtained long before the loss of head exhibits any influence from Schmutzdecke formation. Generally speaking, normal changes in resistance and loss of head were not observed to have any effect upon bacterial removal.

It was observed that after a good Schmutzdecke had formed it required an interval of from 2 to 12 hours to drain the bed before scraping. It was found necessary to put in syphon overflows to carry this water off. In practice, apparatus should always be provided to run this surface water back to the pump well instead of attempting to drain it through the Schmutzdecke to the underdrains.

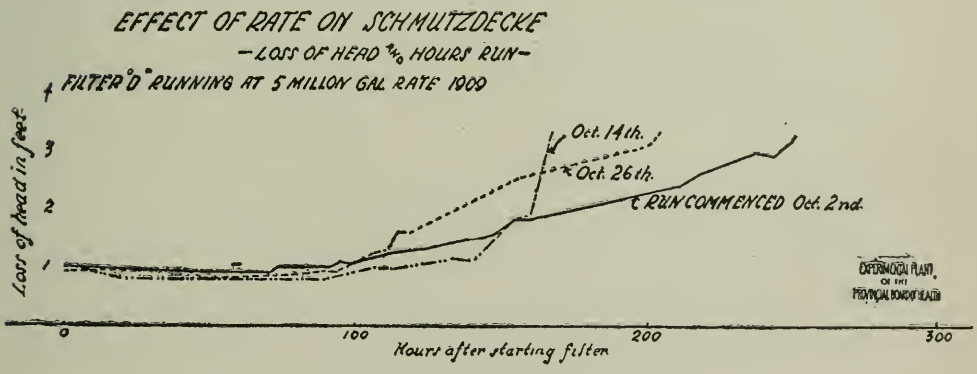
GRAPH No 15


EFFECT OF RATE ON SCHMUTZDECKE
-LOSS OF HEAD % HOURS RUN-
FILTER "A" RUNNING AT 20 MILLON GAL. RATE 1909
Oct 5th RUN
Oct 12th RUN
RUN COMMENCED Oct 8th
(Hours in terms of 5 Million Rate)
EXPERIMENTAL PLANT OF THE PROVINCIAL BOARD OF HEALTH
Datum
Loss of head in feet
Hours after starting filter

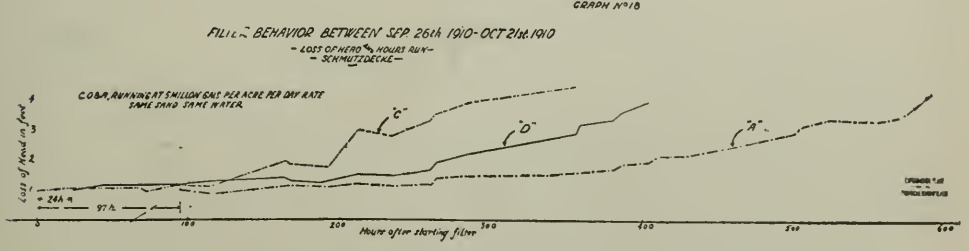
GRAPH No 16


EFFECT OF RATE ON SCHMUTZDECKE
-LOSS OF HEAD % HOURS RUN-
FILTER "B" RUNNING AT 15 MILLON GAL RATE 1909
Nov 1st
Oct. 26th.
Run commenced Oct 8th.
EXPERIMENTAL PLANT OF THE PROVINCIAL BOARD OF HEALTH
DATUM
Loss of head in feet
Hours after starting filter

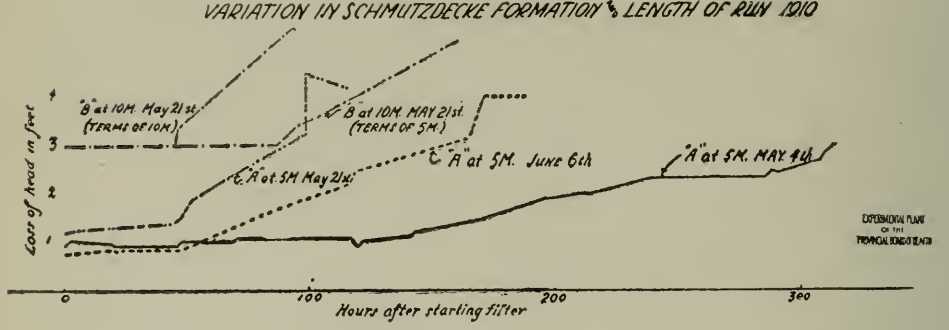
GRAPH No 17


EFFECT OF RATE ON SCHMUTZDECKE
-LOSS OF HEAD % HOURS RUN-
FILTER "D" RUNNING AT 5 MILLON GAL RATE 1909
Oct. 14th.
Oct. 26th.
RUN COMMENCED Oct. 2nd.
EXPERIMENTAL PLANT OF THE PROVINCIAL BOARD OF HEALTH
Loss of head in feet
Hours after starting filter

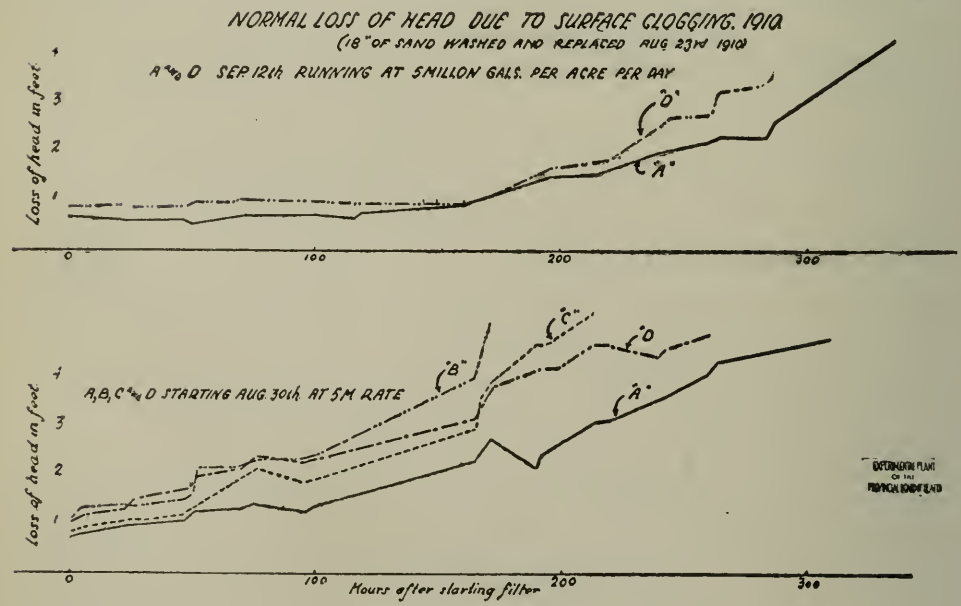
GRAPH No 18


FILTER BEHAVIOR BETWEEN SEP 26th 1910-OCT 21st 1910
- LOSS OF HEAD % HOURS RUN -
- SCHMUTZDECKE -
COBA, RUNNING AT 5 MILLON GALS PER ACRE PER DAY RATE
SAME SAND SAME WATER
"D"
"C"
"A"
24 h
97 h
Loss of Head in feet
Hours after starting filter

GRAPH N° 19


VARIATION IN SCHMUTZDECKE FORMATION % LENGTH OF RUN 1910
"B" at 10M. May 21st (TERMS OF 10M.)
"B" at 10M. MAY 21st (TERMS OF 5M.)
"C" "A" at 5M. June 6th
"A" at 5M. MAY 4th
"A" at 5M. May 21st
Loss of head in feet
Hours after starting filter
0
100
200
300

GRAPH N° 20



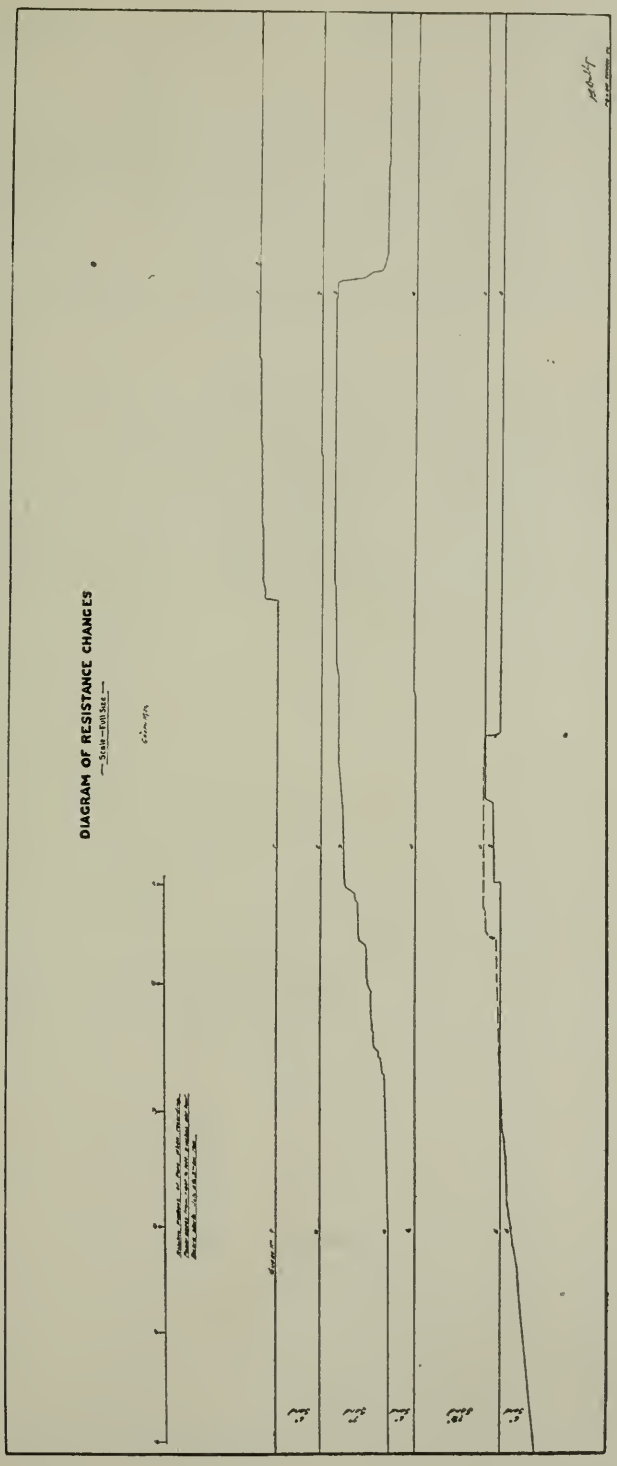


DIAGRAM OF RESISTANCE CHANGES

It was observed that the resistance offered by one foot of sand changes rather unaccountably during the run of a filter. Appendix "F" is obtained from daily and hourly observation. These irregularities should be borne in mind when discussing stratification of sand on page 64. Graph 21 shows the manner in which the resistance changes. The changes were automatically recorded on a sheet of paper revolved by clock work. The Graph shows that negative pressures occur in the sand. This appears like evidence of crust formation and shows how probing would help out the loss of head. Short runs would likely be associated with the presence of these incrusted areas.

Resistances computed with the formulæ presented by Hazen (1901) were compared with those actually existing in the filters; in no case could they be said to be at all alike.

$$V = cd^2 \frac{H}{L} \left(\frac{t \text{ fah} \div 10}{60}\right)$$

is not a reliable formula. In practice it will be found much more advantageous to set up a small filter, say 10 feet in diameter, and to determine the resistance and length of run experimentally. Values obtained by using the formula are too inaccurate to be of use in computing lateral filtration to underdrains, in estimating initial loss of head and when determining filtered water reservoir elevation for gravity systems.

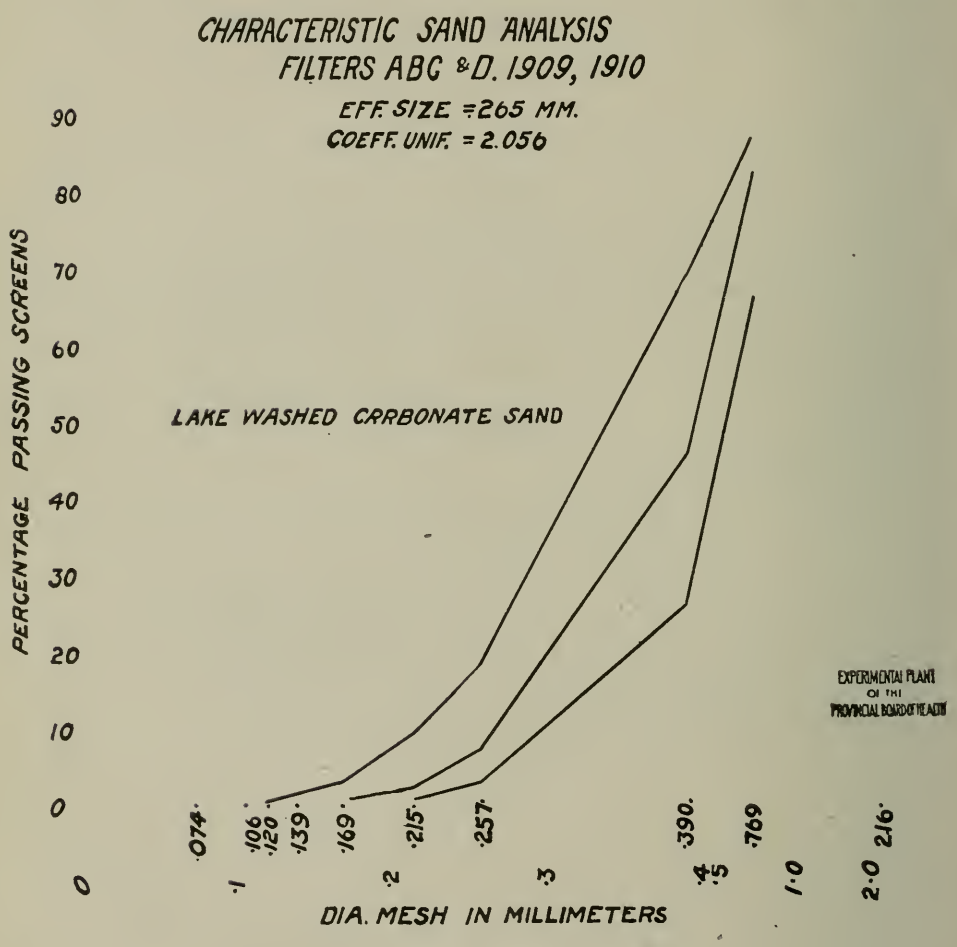
CHART No 3

COMPARISON OF THE ANALYSES OF SOME SANDS USED IN SLOW SAND FILTRATION

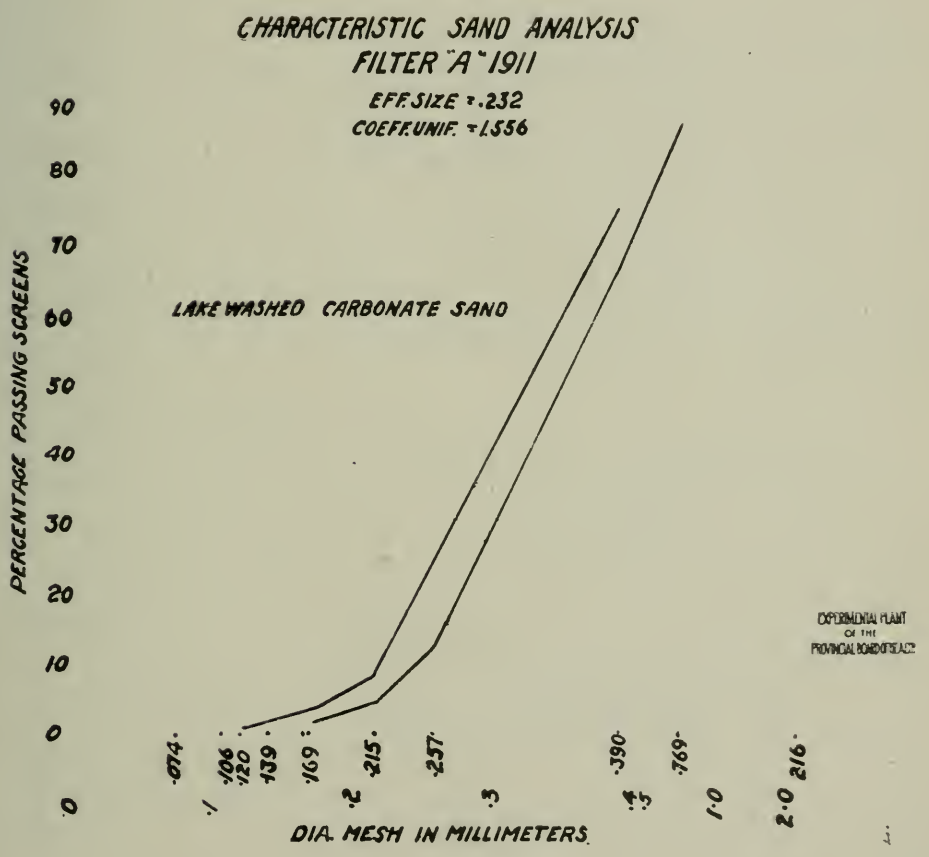
SOURCE	EFFECTIVE SIZE, i.e. 10% FINER THAN (MILLIMETERS)	UNIFORMITY COEFFICIENT	REMARKS
LONDON Eng.			
East London Co	.37	2.0	Old dirty Sand - Washed.
Grand Junction	.41	3.7	Old Sand - Freshly Washed.
BUDAPEST	.20	2.0	New Washed Danube Sand
ZURICK	.30	3.1	Dirty used Sand - Washed
HAGUE	.19	1.6	DUNE Sand used for Filtration
AMSTERDAM	.17	1.6	" " " " "
READING	.22	2.0	Dirty Sand Washed
PROVINCIAL BOARD OF HEALTH OF ONTARIO			
Experimental Filter D 1909-'10-'11-'12.	.26	2.0	Lake Washed Carbonate Sand - Washed
" " A.B.C & D 1909-'10.	.26	2.0	" " " " "
" " A 1911-'12	23	1.5	" " " " "
" " C 1911-'12	.188	2.18	Carbonate Pit Sand - Unwashed
" " B 1911-'12	.166	1.84	Silica Sand - Unwashed.
" Mechanical Filter 1912	.39	1.6	Silica Sand - Washed.
TORONTO Dec. 31st. 1912	.26	1.5	Carbonate Lake Washed Sand Bin No 2
MASSACHUSETTS STATE BOARD OF HEALTH 1892			
Lawrence Experimental Station 18A.	.48	2.4	
" " 36A.	.20	1.6	

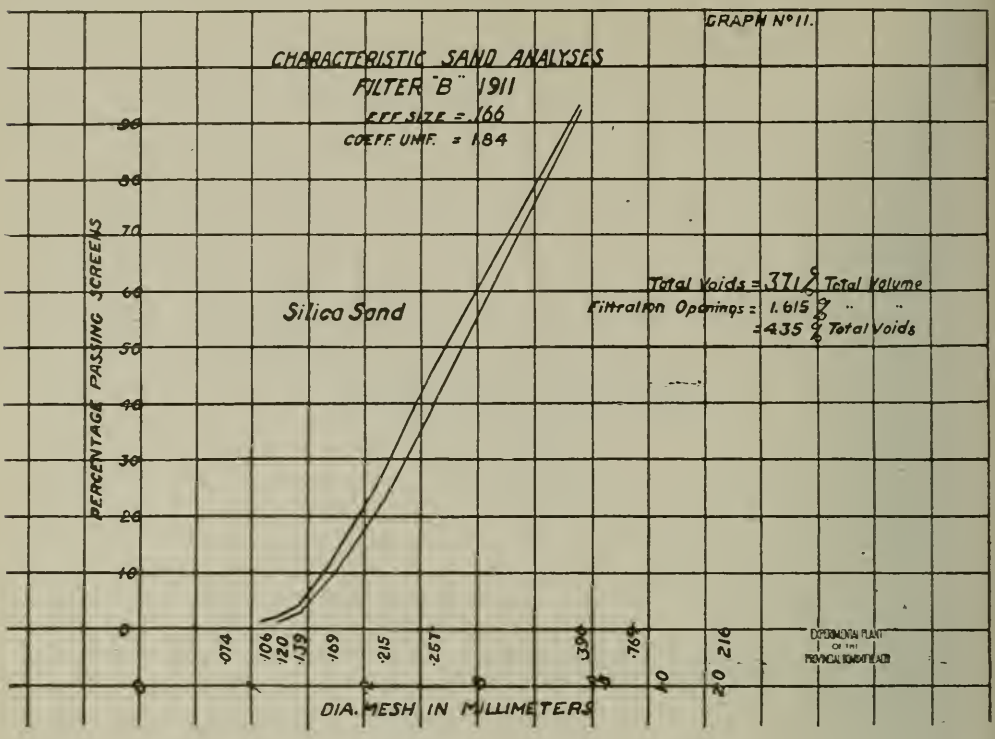
EXPERIMENTAL PLANT OF THE PROVINCIAL BOARD OF HEALTH

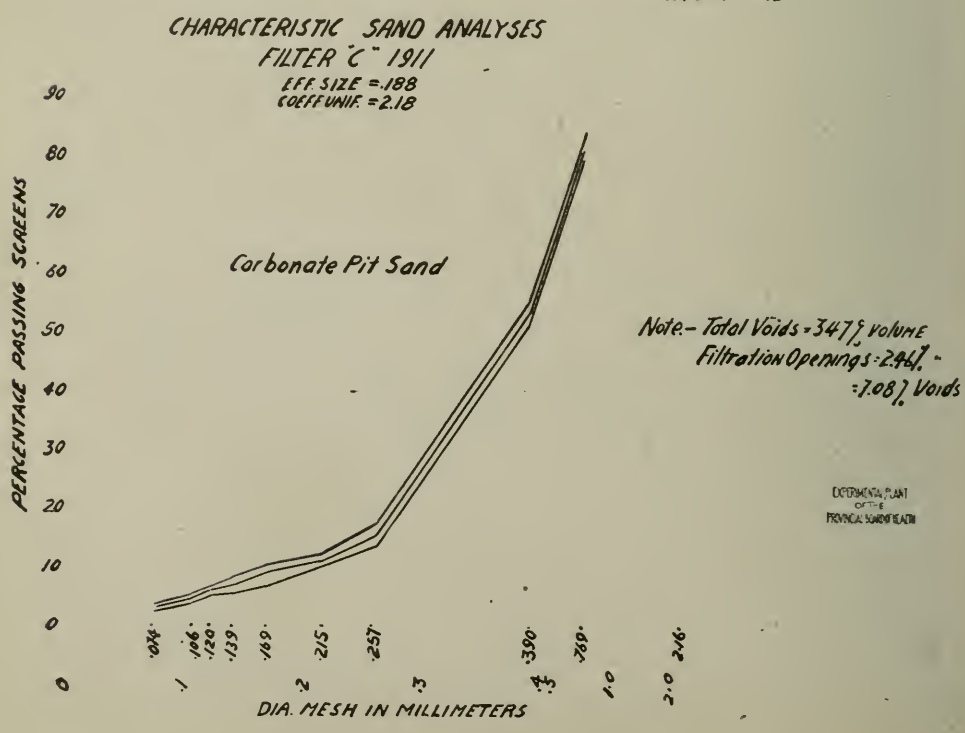
GRAPH No 9,

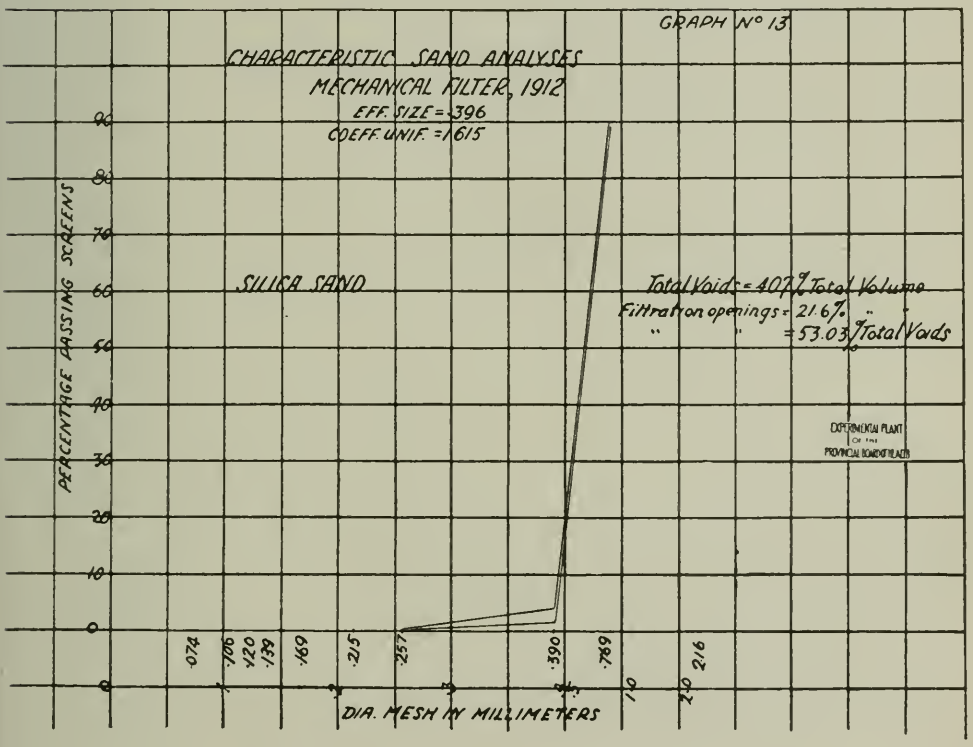

CHARACTERISTIC SAND ANALYSIS
FILTERS ABC & D. 1909, 1910
EFF. SIZE = 265 MM.
COEFF. UNIF. = 2.056
LAKE WASHED CARBONATE SAND
PERCENTAGE PASSING SCREENS
90
80
70
60
50
40
30
20
10
0
0
·074
·1
·106
·120
·139
·169
·2
·215
·257
·3
·390
·4
·5
·769
1·0
2·0
2·16
DIA. MESH IN MILLIMETERS
EXPERIMENTAL PLANT
OF THE
PROVINCIAL BOARD OF HEALTH

GRAPH Nº 10


CHARACTERISTIC SAND ANALYSIS
FILTER "A" 1911
EFF. SIZE = .232
COEFF. UNIF. = 1.556
LAKE WASHED CARBONATE SAND
PERCENTAGE PASSING SCREENS
90
80
70
60
50
40
30
20
10
0
0
.074
.1
.106
.120
.139
.169
.2
.215
.251
.3
.390
.4
.5
.769
1.0
2.0
2.16
DIA. MESH IN MILLIMETERS
EXPERIMENTAL PLANT OF THE PROVINCIAL BOARD OF HEALTH


GRAPH N°11.
CHARACTERISTIC SAND ANALYSES
FILTER "B" 1911
EFF. SIZE = .166
COEFF. UNIF. = 1.84
Silica Sand
Total Voids = 37.1% Total Volume
Filtration Openings = 1.615% " "
= 4.35% Total Voids
PERCENTAGE PASSING SCREENS
DIA. MESH IN MILLIMETERS
.074
.106
.120
.139
.169
.215
.257
.390
.769
1.0
2.0
2.16
EXPERIMENTAL PLANT OF THE PROVINCIAL BOARD OF HEALTH


GRAPH N°12
CHARACTERISTIC SAND ANALYSES
FILTER "C" 1911
EFF. SIZE = .188
COEFF. UNIF. = 2.18
Carbonate Pit Sand
Note.- Total Voids = 34.7% Volume
Filtration Openings = 2.46% "
= 7.08% Voids
PERCENTAGE PASSING SCREENS
DIA. MESH IN MILLIMETERS
.074
.106
.120
.139
.169
.215
.257
.390
.769
1.0
2.0
2.46
EXPERIMENTAL PLANT OF THE PROVINCIAL BOARD OF HEALTH


GRAPH N° 13
CHARACTERISTIC SAND ANALYSES
MECHANICAL FILTER, 1912
EFF. SIZE = .396
COEFF. UNIF. = 1615
SILICA SAND
Total Voids = 40.7% Total Volume
Filtration openings = 21.6% "
" = 53.03% Total Voids
EXPERIMENTAL PLANT OF THE PROVINCIAL BOARD OF HEALTH
PERCENTAGE PASSING SCREENS
90
80
70
60
50
40
30
20
10
0
.074
.106
.120
.139
.169
.215
.257
.390
.789
1.0
2.0
2.16
DIA. MESH IN MILLIMETERS

GRAPH No. 14.

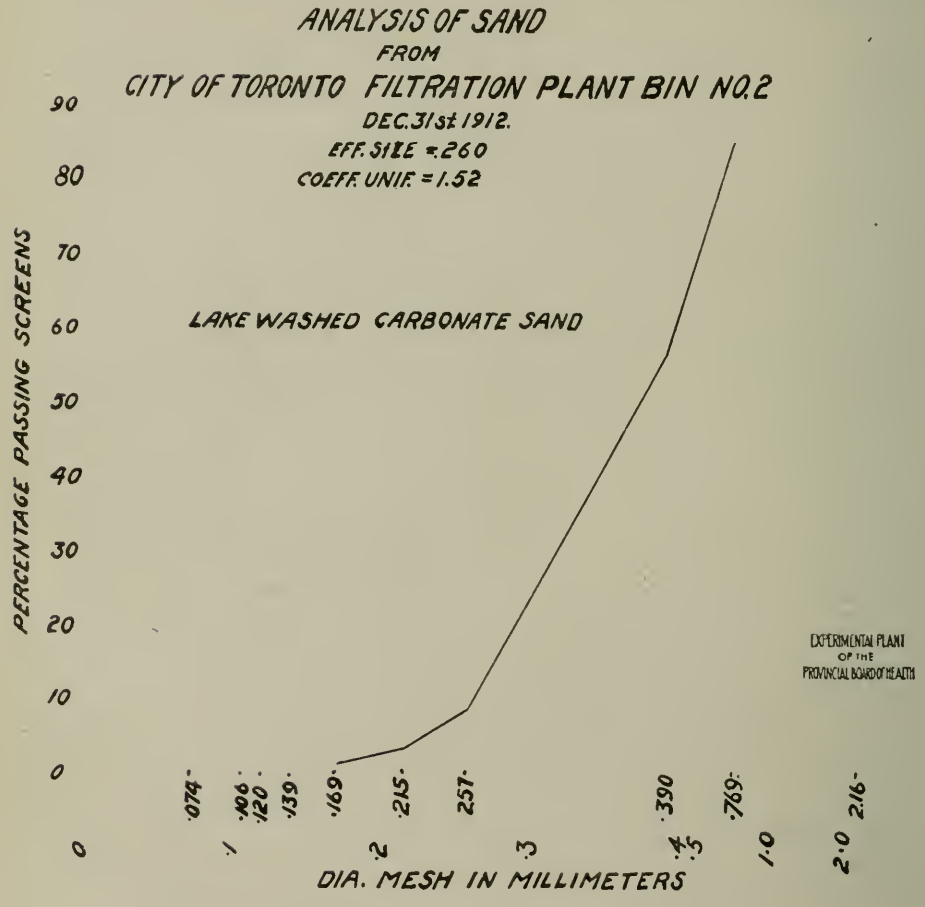

ANALYSIS OF SAND
FROM
CITY OF TORONTO FILTRATION PLANT BIN NO. 2
DEC. 31st 1912.
EFF. SIZE = .260
COEFF. UNIF. = 1.52
LAKE WASHED CARBONATE SAND
PERCENTAGE PASSING SCREENS
90
80
70
60
50
40
30
20
10
0
0
.074
.096
.120
.139
.169
.215
.257
.390
.769
2.16
1
.2
.3
.4
.5
1.0
2.0
DIA. MESH IN MILLIMETERS
EXPERIMENTAL PLANT
OF THE
PROVINCIAL BOARD OF HEALTH

CHART No 4

1909–1910
TYPICAL RUNS BETWEEN SCRAPINGS, ALBANY FILTERS

	DAYS	HOURS	GALLONS	GALLONS PER ACRE	DATES
5	34	8	79335000	113335714	Oct. 12 - Nov. 15
"	53	18	119459000	170655715	Nov. 16 - Jan. 9
"	34	16	63231000	90330000	Jan. 11 - Feb. 14
"	73	4	148924000	212748571	Feb. 16 - Apr 30
"	78	12	154128000	220182857	May 11 - Jul. 29
"	53	8	150789000	215412857	Jul. 30 - Sep. 31
6	42	8	103520000	147885714	Sep. 9 - Oct. 21
"	72	12	163108000	233011448	Oct. 22 - Jan. 3
"	62	0	175224000	250348571	Jan. 5 - Mar. 7
"	137	8	335971000	479958000	Mar. 9 - Jul 25
"	54	8	147589000	210841429	Jul. 27 - Sep 19
8	27	4	59548000	85068591	Oct. 16 - Nov. 12
"	32	8	65620000	93742857	Nov. 13 - Dec. 15
"	55	16	108947000	155638571	Dec. 16 - Feb. 10
"	34	8	65863000	94090000	Feb. 12 - Mar. 18
"	23	0	24672000	35245714	Mar. 19 - Apr. 12
"	40	12	68590000	97985714	Apr 13 - May 23
"	60	4	107693000	153847143	Jun. 5 - Aug. 4
"	56	10	149205000	213150000	Aug. 5 - Oct. 1
4	20	20	48859000	69798571	Oct. 20 - Nov. 10
"	21	20	43036000	61725551	Nov. 11 - Dec. 4
"	25	10	42378000	60540000	Dec. 5 - Dec. 30
"	17	0	29992000	42845714	Jan. 1 - Jan. 17
"	33	8	50417000	72024286	Jan. 20 - Feb. 22
"	48	12	88555000	126507142	Feb. 24 - Apr. 14
"	87	16	204156000	291651570	Apr. 30 - Jul. 27
"	56	12	164445000	234921428	Jul. 28 - Sep. 23
1	27	22	73641000	105201591	Sep. 26 - Oct. 25
"	99	12	245191000	350271200	Oct. 26 - Feb. 2
"	160	4	457850000	654071570	Feb. 5 - Jul. 15

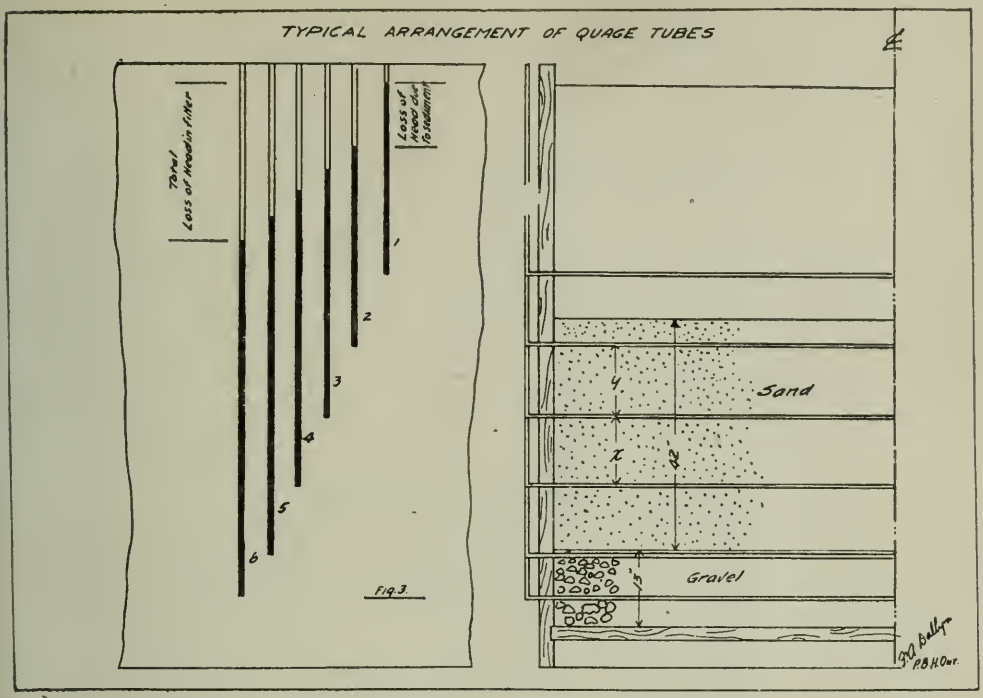
CHART Nº 5

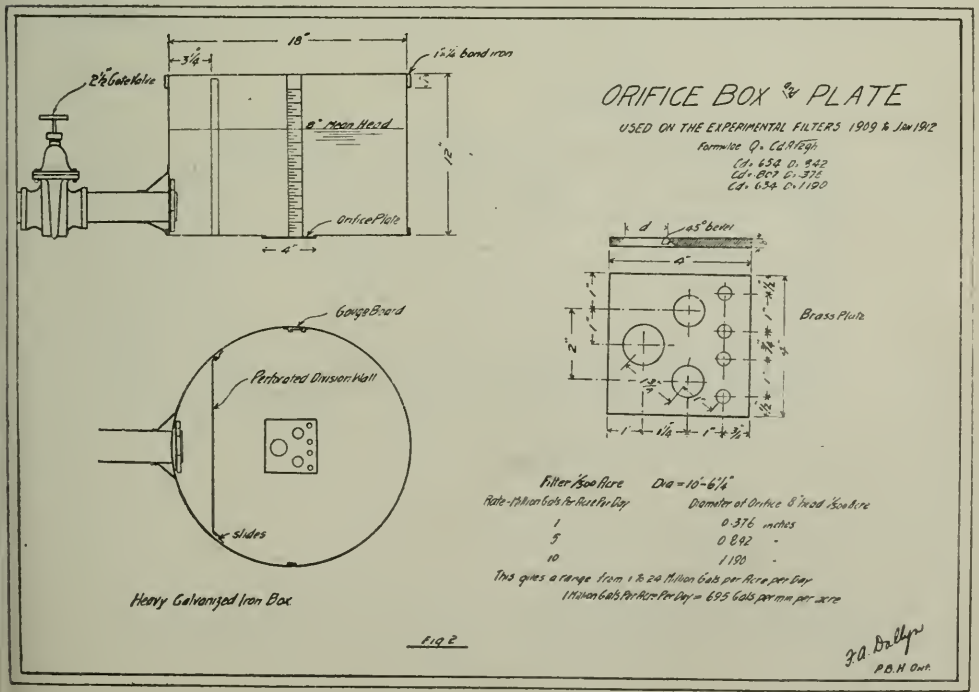
OPERATION OF ALBANY FILTERS FOR YEARS ENDING SEP 30th. 1910.-1911.

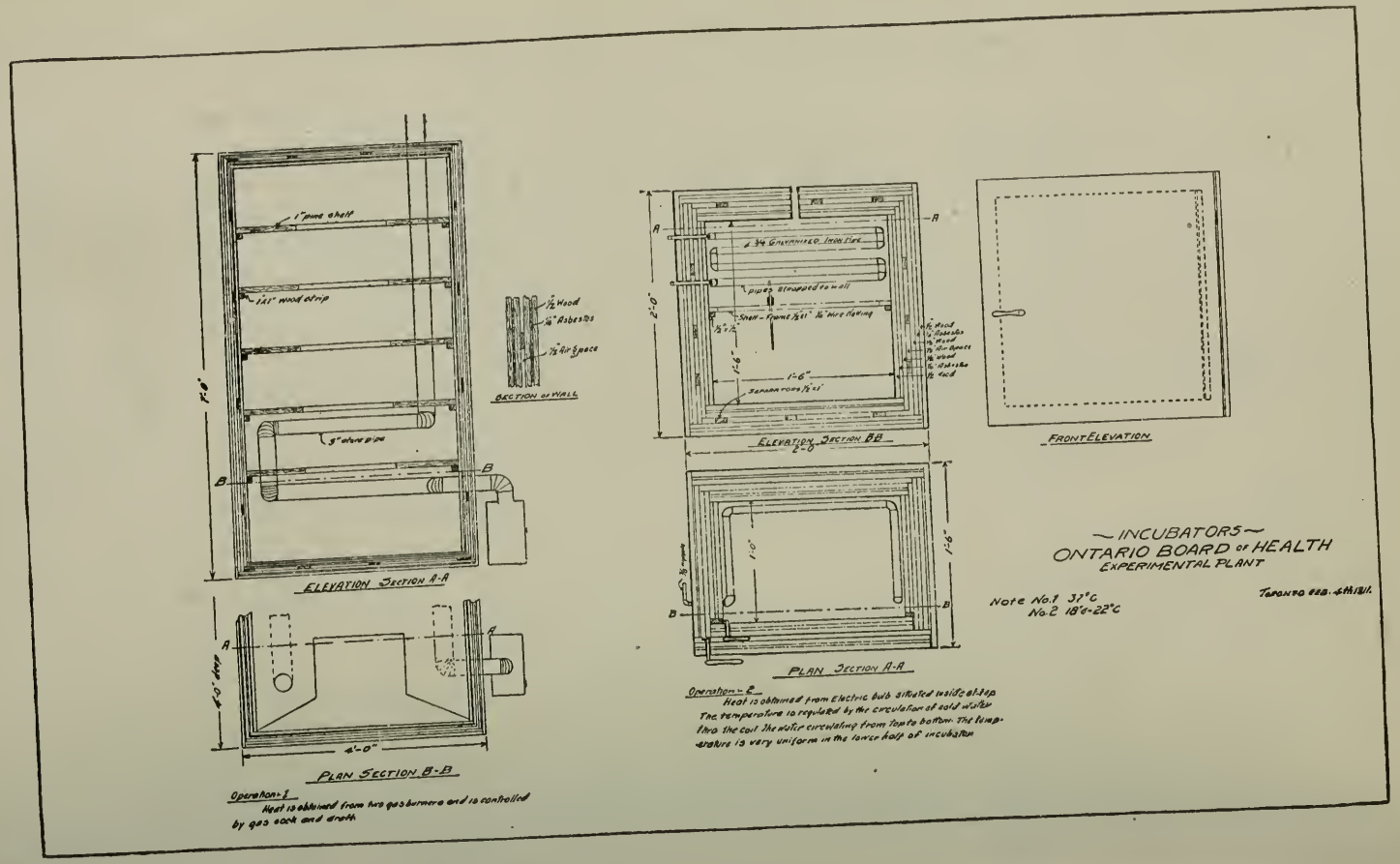
FILTER NUMBER	YEAR	TIMES SCAPER	ACTUAL HOURS SERVICE	TOTAL QUANTITY OF WATER FILTERED DURING YEAR	AVERAGE QUANTITY OF WATER FILTERED PER FILTER (.07 ACRE) BETWEEN EACH SCRAPING	AVERAGE QUANTITY OF WATER FILTERED PER ACRE BETWEEN EACH SCRAPING	AVERAGE QUANTITY OF WATER FILTERED PER ACRE PER DAY
1	1910	4	8608	952 095 000	238023750	340034 000	3800000
	1911	13	8117	922 626000	70974 000	101391 000	3897000
2	1910	10	8002	650390 000	65039000	92913000	2790000
	1911	10	8557	1017914 000	101 791000	145 416 000	4079000
3	1910	5	8573	951384000	190269600	271814000	3761000
	1911	13	8481	910874000	70 067000	100096000	3682000
4	1910	10	8054	716 257000	71 625 700	123 214000	3053000
	1911	11	8455	1017327000	92484000	132 120 000	4125000
5	1910	6	8166	745011000	124168500	177 398000	3127000
	1911	11	8530	1036635000	94240000	134 629000	4167000
6	1910	5	8564	900 764 000	182152800	260218000	3330000
	1911	12	8070	917354000	76446000	109209000	3897000
7	1910	5	8604	951 506 000	190301200	271471000	3796000
	1911	12	8376	1000811000	83400000	119143000	4097000
8	1910	7	8192	673316 000	96045123	137 209000	2819000
	1911	11	8397	1026333000	93303000	147719000	4191000
TOTAL	1910	52	64763	6540 682000			
	1911	93	66983	7849869000			
AVERAGE	1910	6.5	8095	817585000	144703209	209284000	3309500
	1911	11.66	8362	981 234000	85338000	123715000	4018000

EXPERIMENTAL PLANT OF THE PROVINCIAL BOARD OF HEALTH

BUREAU OF WATER ANNUAL REPORTS 1910-1911


TYPICAL ARRANGEMENT OF QUAGE TUBES
Total Loss of Head in Filter
Loss of Head due to Sediment
1
2
3
4
5
6
Fig 3.
Sand
Gravel
P.B.H Ont.


18"
3/4"
1 1/4" bend iron
2 1/2" Gate Valve
8" Mean Head
12"
Orifice Plate
4"
Gauge Board
Perforated Division Wall
Slides
Heavy Galvanized Iron Box
ORIFICE BOX & PLATE
USED ON THE EXPERIMENTAL FILTERS 1909 to Jan 1912
Formulae Q = Cd A √2gh
Cd = .654 D = .842
Cd = .807 D = .375
Cd = .634 D = .1190
d
45° bevel
4"
Brass Plate
2"
Filter Head Race Dia = 10'-6 1/4"
Rate - Million Gals per Acre per Day
Diameter of Orifice 8 1/2 ad 1/2 Acre
1 0.376 inches
5 0.842 -
10 1.190 -
This gives a range from 1 to 24 Million Gals per Acre per Day
1 Million Gals Per Acre Per Day = 6.95 Gals per min per acre
Fig 2
P.B.H Ont.


1" pine shelf
1 1/2" wood strip
5" stove pipe
B
B
7'-0"
ELEVATION SECTION A-A
1/2" Wood
1/8" Asbestos
1/2" Air Space
SECTION OF WALL
4'-0" deep
A
A
4'-0"
PLAN SECTION B-B
Operation-1
Heat is obtained from two gas burners and is controlled by gas cock and draft
A
A
3/4 GALVANIZED IRON PIPE
piped strapped to wall
Shelf - Frame 1"x3" 16" wire netting
1'-6"
1'-6"
Separators 1/2"x3"
2'-0"
1/2" Wood
1/8" Asbestos
1/2" Air Space
1/2" wood
1/8" Asbestos
1/2" Felt
ELEVATION SECTION BB
2'-0"
FRONT ELEVATION
1'-6"
1'-0"
5" stove pipe
B
B
PLAN SECTION A-A
Operation-2
Heat is obtained from Electric bulb situated inside at top
The temperature is regulated by the circulation of cold water thro the coil the water circulating from top to bottom. The temperature is very uniform in the lower half of incubator
— INCUBATORS —
ONTARIO BOARD OF HEALTH
EXPERIMENTAL PLANT
Note No.1 37°C
No.2 18°-22°C
Toronto 22nd. April 11.

APPENDIX A.

APPENDIX

SAND

TANK "A"—RATE 20,000,000 GALLONS

EXPERIMENTAL STATION.

Date	Hour A.M.	Hour P.M.	Serial No.	Gauge Read 6	Max. loss of head.	Bacterial Counts. 18°-22°C. Inf	Bacterial Counts. 18°-22°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1909										
Sept. 15....	10.20	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	10.30	.....	1	.....	.....	90	60	.....	.....	.....
	12.00	.....	2	.....	.....	120	90	.....	.....	.....
	.....	4.00	2	.....	.....	310	16	.....	.....	.....
16....	9.30	.....	4	2.45	2.45	230	25	.....	.....	.....
	12.00	.....	5	.....	.....	170	42	.....	.....	.....
	.....	4.00	6	.....	.....	70	47	.....	.....	.....
17....	9.30	.....	7	4.25	4.25	520	50	.....	.....	.....
	10.15	.....	stop	.....	.....	215	47	78.2	.....	.....
	.....	4.15	start	0.0	.....	.....	.....	.....	.....	.....
18....	9.30	.....	10	2.35	2.35	330	60	.....	.....	.....
	12.00	.....	11	.....	.....	—	—	.....	.....	.....
20....	11.00	.....	stop	3.3	3.3	330	60	81.8	.....	.....
	.....	4.00	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	4.15	13	.....	.....	150	20	.....	.....	.....
21....	9.30	.....	14	3.3	3.3	160	20	.....	.....	.....
	9.30	.....	stop	.....	.....	155	20	87.2	.....	.....
	.....	3.00	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	4.00	16	.....	.....	148	30	.....	.....	.....
22....	9.30	.....	17	2.55	2.55	560	10	.....	.....	.....
	12.00	.....	18	.....	.....	250	40	.....	.....	.....
	.....	4.00	19	.....	.....	680	2	.....	.....	.....
23....	9.00	.....	stop	3.3	3.3	409.5	20.5	95.1	.....	.....
	.....	12.45	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	4.15	22	.....	.....	400	4	.....	.....	.....
24....	9.45	.....	23	2.15	2.15	540	10	.....	.....	.....
	12.00	.....	24	.....	.....	250	10	.....	.....	.....
	.....	4.00	25	.....	.....	430	3	.....	.....	.....
25....	9.30	.....	26	3.0	3.0	390	7	.....	.....	.....
	11.30	.....	stop	3.3	3.3	402	6.8	98.3	.....	.....
	.....	3.30	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	4.00	28	.....	.....	299	14	.....	.....	.....
27....	9.30	.....	29	.....	.....	330	1	.....	.....	.....
	12.00	.....	30	.....	.....	610	4	.....	.....	.....
27....	.....	3.00	stop	3.2	3.2	413	6.3	98.3	.....	.....
28....	9.30	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	12.00	.....	33	.....	.....	920	8	.....	.....	.....
	.....	4.00	34	.....	.....	730	19	.....	.....	.....
29....	9.30	.....	35	.....	.....	1,200	28	.....	.....	.....
	.....	4.00	36	2.85	2.85	110	6	.....	.....	.....
30....	9.30	.....	37	3.3	3.3	310	7	.....	.....	.....
	9.30	.....	stop	.....	.....	654	13.6	97.9	.....	.....
	.....	2.50	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	2.50	39	.....	.....	—	45	.....	.....	.....
	.....	3.00	40	.....	.....	—	32	.....	.....	.....
	.....	3.30	41	.....	.....	—	30	.....	.....	.....
	.....	3.45	42	.....	.....	—	25	.....	.....	.....
	.....	4.00	43	.....	.....	214	11	.....	.....	.....

A

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C

APPENDIX

SAND

TANK "A"—RATE 20,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Gauge read. 6	Max. loss of head.	Bacterial Counts. 18°22°C Inf.	Bacterial Counts. 18°22°C Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1909										
Oct. 1.....	9.30	.....	44	.....	.....	280	3	.....	.....	.....
	12.00	.....	48	.....	.....	120	9	.....	.....	.....
	.....	4.00	49	3.0	3.0	76	5	.....	.....	.....
2.....	9.30	.....	50	.....	.....	380	4	.....	.....	.....
	10.50	.....	stop	3.3	3.3	214	6.4	96.8	.....	.....
	.....	1.00	start	0.0	0.0	.....	.....	.....	.....	.....
4.....	12.00	.....	52	.....	.....	140	7	.....	.....	.....
	12.00	.....	stop	3.3	3.3	140	7	95.1	.....	.....
	.....	4.45	start	0.0	0.0	.....	.....	.....	.....	.....
5.....	9.30	.....	54	2.15	2.15	200	2	.....	.....	.....
	12.00	.....	55	2.25	2.25	112	7	.....	.....	.....
5.....	.....	4.00	56	2.15	2.15	173	5	.....	.....	.....
6.....	9.30	.....	57	2.1	2.1	440	4	.....	.....	.....
	12.00	.....	58	2.1	2.1	230	4	.....	—	—
	.....	4.00	59	2.3	2.3	260	6	.....	+	+
7.....	9.30	.....	60	2.9	2.9	270	5	.....	+	+
	12.00	.....	61	3.0	3.0	220	4	.....	+	+
	.....	3.00	stop	3.3	3.3	265.5	6.1	97.8	.....	.....
8.....	10.15	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	12.00	.....	64	2.9	2.9	290	30	.....	—	+
	.....	4.00	65	2.75	2.73	940	20	.....	+	+
9.....	9.30	.....	66	2.3	2.3	200	7	.....	.....	.....
	12.00	.....	67	2.85	2.85	400	7	.....	+	+
11.....	9.30	.....	68	2.75	2.75	560	1	.....	—	—
	12.00	.....	69	2.85	2.85	150	1	.....	—	+
	.....	4.00	70	3.05	3.05	89	10	.....	—	+
12.....	7.00	.....	stop	3.3	3.3	374.2	10.8	97.7		
	.....	12.45	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	4.00	73	2.2	2.2	157	0	.....	+	+
13.....	9.30	.....	74	1.9	1.9	151	4	.....	—	+
	12.00	.....	75	1.9	1.9	134	10	.....	+	+
	.....	4.00	76	1.8	1.8	151	3	.....	+	+
14.....	9.30	.....	77	2.0	2.0	200	5	.....	—	+
	12.00	.....	78	2.05	2.05	148	1	.....	—	+
	.....	4.00	79	2.1	2.1	150	3	.....	—	+
15.....	9.30	.....	80	2.5	2.5	151	5	.....	.....	.....
	12.00	.....	81	2.7	2.7	1520.	140.	.....	.....	.....
	.....	4.00	82	3.1	3.1	240.	0	.....	.....	.....
	.....	5.00	stop	3.3	3.3	290.2	17.1	94.1		
16.....	.....	12.30	start	0.0	0.0	.....	.....	.....	.....	.....
18.....	12.00	.....	85	2.7	2.7	220	3	.....	.....	.....
	.....	3.30	86	2.7	2.7	129	6	.....	.....	.....
19.....	9.30	.....	87	3.6	3.6	160	5	.....	.....	.....
	9.30	.....	stop	.....	.....	169.6	4.6	97.4		
	.....	3.30	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	4.00	89	3.0	3.0	460	5	.....	.....	.....
20.....	9.30	.....	90	2.15	2.15	1700	4	.....	.....	.....
	12.00	.....	91	2.15	2.15	1200	4	.....	.....	.....

A—Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
—	—	+	+	+	+	—	—	—	—	—	—	—	—
+	+	+	+	+	+	—	—	—	+	+	+	+	+
+	+	+	+	+	+	—	+	+	+	—	+	—	+
+	+	+	+	+	+	—	—	+	+	+	+	+	+
+	+	+	+	+	+	—	+	+	+	+	+	+	+
+	+	+	+	+	+	—	+	—	—	+	+	+	+
+	+	+	+	+	+	—	+	—	—	—	+	+	+
+	+	+	+	+	+	—	—	+	—	+	+	+	+
+	+	+	+	+	+	—	—	—	—	—	+	+	—
+	+	+	+	+	+	+	—	—	+	+	+	+	+
+	+	+	+	+	+	—	+	+	+	+	+	+	+
+	+	+	+	+	+	—	+	+	+	+	+	+	+
+	+	+	+	+	+	—	—	—	—	—	+	+	+
+	+	+	+	+	+	+	+	+	+	+	+	+	+
+	—	+	+	+	+	—	+	+	—	—	+	+	+
+	+	+	+	+	+	—	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+	+	—	+	+	+	+

APPENDIX
SAND

EXPERIMENTAL STATION. TANK "A"—RATE 20,000,000 GALLONS

Date. 1909	Hour. A.M.	Hour. P.M.	Serial No.	Gauge read. 6	Max. loss of head.	Bacterial Counts. 18°22°C Inf.	Bacterial Counts. 18°22°C Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
	.....	4.00	92	2.35	2.35	3460	300	.....	.....	.....
21.....	9.30	.....	stop	3.7	3.7	1705	78.2	95.4		
26.....	.....	3.30	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	4.00	96	2.5	2.5	160	9	.....	—	+
27.....	9.30	.....	97	2.4	2.4	91	1	.....	—	+
	12.00	.....	98	2.3	2.3	60	4	.....	—	+
	.....	4.00	99	2.2	2.2	40	5	.....	+	—
28.....	12.00	.....	100	2.2	2.2	35	3	.....	—	+
	.....	3.00	101	2.35	2.35	60	3	.....	.....	.....
29.....	.....	3.00	102	3.15	3.15	60	80	.....	—	+
	.....	3.00	stop	.....	.....	72.2	15	98.3		
30.....	12.00	.....	start	0.0	0.0	.....	.....	.....	.....	.....
Nov. 1.....	9.30	.....	105	2.2	2.2	130	5	.....	.....	.....
	12.00	.....	106	2.35	2.35	60	12	.....	.....	.....
	.....	3.00	107	2.6	2.6	30	4	.....	.....	.....
2.....	10.00	.....	stop	3.3	3.3	73.3	7	90.4		
5.....	9.30	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	9.30	.....	109	.....	.....	70	2	.....	.....	.....
	12.00	.....	110	2.6	2.6	60	7	.....	.....	.....
	.....	3.00	111	2.55	2.55	35	5	.....	.....	.....
Nov. 6....	9.30	.....	112	1.8	1.8	40	3	.....	.....	.....
	12.00	.....	113	1.8	1.8	110	6	.....	.....	.....
8....	12.00	.....	114	2.7	2.7	55	9	.....	.....	.....
	.....	4.00	115	3.0	3.0	85	5	.....	.....	.....
9....	9.30	.....	stop	3.3	3.3	65	5.2	92.0	.....	.....
	.....	3.45	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	4.00	118	2.8	2.8	65	40	.....	.....	.....
10....	9.30	.....	stop	3.3	3.3	65	40	38.5	.....	.....
	.....	3.00	start	0.0	0.0	.....	.....	.....	.....	.....
10....	.....	3.00	121	3.0	3.0	65	1	.....	—	—
11....	9.30	.....	122	2.8	2.8	80	9	.....	—	—
	12.00	.....	123	3.05	3.05	50	0	.....	—	—
	.....	3.30	124	3.6	3.6	35	0	.....	—	—
	.....	4.00	stop	3.6	3.6	57.5	2.5	95.6	.....	.....
12....	12.00	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	3.00	126	2.6	2.6	125	40	.....	—	—
13....	9.30	.....	127	2.05	2.05	85	13	.....	—	—
	12.00	.....	128	2.2	2.2	90	5	.....	—	—
15....	9.30	.....	stop	3.3	3.3	100	19.3	80.7	.....	.....
23....	9.45	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	10.00	.....	142	0.8	0.8	1,420	50	.....	+	+
	12.00	.....	143	0.8	0.8	3,210	30	.....	+	+
	.....	3.30	144	0.8	0.8	2,380	60	.....	+	+
24....	9.30	.....	145	0.7	0.7	5,600	227	.....	+	+
	12.00	.....	146	1.3	1.3	1,030	10	.....	+	+
	.....	3.00	stop	.....	.....	2,728	75.4	97.2		
Dec. 6....	.....	4.30	start	.....	.....	.....	.....	.....	.....	.....
	.....	4.30	158	.....	.....	—	—	.....	.....	.....
7....	9.30	.....	stop	.....	.....	.....	.....	.....	.....	.....

New Sand placed in February

A—Continued.
FILTERS.
PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
+	+	+	+	+	+	—	—	—	—	+	+	+	+
+	+	+	+	+	+	—	+	+	+	+	+	+	+
+	+	+	+	+	+	—	+	+	+	+	+	+	+
+	+	+	+	+	+	—	+	—	+	+	—	+	+
+	+	+	+	+	+	—	—	+	+	+	—	—	—
+	+	+	+	+	+	—	+	+	+	+	+	+	+
—	—	—	+	+	+	—	—	—	—	—	—	—	+
+	+	+	—	—	—	—	—	—	+	+	+	+	+
+	+	+	+	+	+	—	—	+	+	+	+	+	+
+	+	—	+	+	+	—	+	—	—	+	—	—	—
—	+	+	+	+	—	—	—	—	—	+	—	+	+
—	—	—	—	—	—	—	—	—	—	+	—	—	—
+	+	+	+	—	—	—	—	—	+	+	—	+	—
+	+	+	+	+	+	—	—	—	+	—	+	+	—
+	+	+	+	+	+	+	+	+	+	+	+	+	+
+	+	+	+	+	+	—	+	+	+	+	+	+	+
+	+	+	+	+	+	—	+	+	+	+	+	+	+

20 cu. yds. received Jan. 28, 1910.

APPENDIX A—

SAND

TANK "A"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
Feb. 16....	.....	4.00	162	452	320	.....	.....	.....	0	+
17....	10.00	.....	163	215	70	.....	.....	.....	+	+
	12.00	.....	164	290	30	.....	.....	.....	0	+
	.....	4.00	165	670	41	.....	.....	.....	+	+
18....	10.00	.....	166	760	152	.....	.....	.....	—	+
	12.00	.....	167	540	82	.....	.....	.....	0	+
	.....	4.00	168	940	84	.....	.....	.....	+	+
	.....	5.00	stop	725.5	111	.....	.....	84.7		
21....	12.00	.....	start	.....	.....	.....	.....	.....	.....	.....
	12.00	.....	172	62	25	.....	.....	.....	0	0
	.....	4.00	173	385	12	.....	.....	.....	+	+
22....	10.00	.....	174	35	12	.....	.....	.....	0	0
	12.00	.....	175	475	4	.....	.....	.....	+	+
	.....	3.00	176	4,110	14	23 10	1 1	.....	+	+
23....	10.00	.....	177	290	15	.....	.....	.....	+	+
	12.00	.....	178	155	28	.....	.....	.....	+	+
	.....	4.00	179	110	54	1 0	1 1	.....	0	+
24....	10.00	.....	180	55	17	.....	.....	.....	+	+
	12.00	.....	181	72	8	.....	.....	.....	0	0
	.....	4.00	182	14	50	1 0	1 1	.....	+	+
25....	10.00	.....	183	42	40	.....	.....	.....	0	0
	12.00	.....	184	20	30	.....	.....	.....	0	+
	.....	4.00	185	22	48	.....	.....	.....	0	0
26....	9.30	.....	186	75	47	0 0	0 0	.....	0	0
	11.00	.....	187	120	21	.....	.....	.....	0	0
28....	10.00	.....	188	30	32	.....	.....	.....	0	+
	12.00	.....	189	30	12	.....	.....	.....	0	0
	.....	4.00	190	320	9	3 3	0 0	.....	—	—

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
+	+	+	+	+	+	+	+	+	+	+	+	+	+
+	+	+	+	+	+	0	+	+	+	+	+	+	+
+	+	+	+	+	+	0	+	+	+	+	+	+	+
+	+	+	+	+	+	0	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+	+	+	+	+	+	+
+	+	+	.....	.....	.....	+	+	+	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
+	+	+	.....	.....	.....	+	—	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	0	0	—	0	+	.....	.....	.....
0	0	0	.....	.....	.....	0	0	+	0	+	.....	.....	.....
+	+	+	.....	.....	.....	0	+	0	—	+	.....	.....	.....
+	+	+	.....	.....	.....	+	+	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	0	—	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	—	+	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	—	+	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	+	+	+	0	+	.....	.....	.....
0	—	—	.....	.....	.....	0	+	+	+	+	.....	.....	.....
—	+	+	.....	.....	.....	0	+	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	0	+	0	+	0	.....	.....	.....
—	+	+	.....	.....	.....	—	0	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	0	0	—	0	+	.....	.....	.....
0	+	+	.....	.....	.....	0	+	+	+	+	.....	.....	.....
0	0	+	.....	.....	.....	0	0	0	+	+	.....	.....	.....
0	0	0	.....	.....	.....	0	+	+	+	0	.....	.....	.....
0	0	0	.....	.....	.....	0	+	0	0	—	.....	.....	.....
+	+	+	.....	.....	.....	0	—	0	+	+	.....	.....	.....

APPENDIX A—
SAND
TANK "A"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date 1910	Hour. A.M.	Hour. P.M.	Serial No.	Gauge Read. 1	2	3	4	5	6	Max loss of head.	Bacterial Counts. 18°-22°C Inf.	18°-22°C Eff.	37.5°C Inf.	37.5°C Eff.	Bact. Eff'cy.
March 1....	10.00	.....	191	...	...	...	...	...	...	...	2,710	136	.....	.....	.....
	12.00	.....	192	...	...	...	...	...	...	...	1,250	236	.....	.....	.....
	.....	4.00	193	...	...	...	...	...	...	...	380	340	4 0	0 0	.....
2....	10.00	.....	194	...	...	...	...	...	...	...	1,350	462	.....	.....	.....
	12.00	.....	195	...	...	...	...	...	...	...	720	157	.....	.....	.....
	.....	4.00	196	...	...	...	...	...	...	...	340	85	0 0	0 0	.....
3....	10.00	.....	197	...	...	...	...	...	...	...	560	53	.....	.....	.....
	12.00	.....	198	...	...	...	...	...	...	...	390	22	.....	.....	.....
	.....	4.00	199	...	...	...	...	...	...	...	210	22	0 0	0 0	.....
4....	10.00	.....	200	...	...	...	...	...	...	...	4,100	860	.....	.....	.....
	12.00	.....	201	...	...	...	...	...	...	...	4,900	620	.....	.....	.....
	.....	4.00	202	...	...	...	...	...	...	...	5,200	550	14 0	3 1	.....
5....	10.00	.....	203	...	...	...	...	...	...	...	790	590	.....	.....	.....
7....	10.00	.....	204	...	...	...	...	...	...	...	495	360	.....	.....	.....
	10.30	.....	stop	...	...	...	...	...	...	...	903.5	150.6	5.1 1.4	.66 .44	83.3
8....	.....	5.00	start	...	...	...	...	...	...	...	.....	.....	.....	87%	.....
														69.2%	.....
9....	10.00	.....	209	1.4	1.4	1.0	.8	.4	.2	1.2	3,980	358	.....	.....	.....
	12.00	.....	210	1.4	1.4	1.0	.8	.4	.2	1.2	2,120	252	.....	.....	.....
	.....	4.00	211	1.2	1.2	.9	.7	.2	.2	1.0	2,130	215	21 1	6 2	.....
10....	10.00	.....	212	1.2	1.2	.8	.6	.2	.2	1.0	2,010	227	.....	.....	.....
	12.00	.....	213	1.2	1.2	.8	.6	.2	.2	1.0	3,500	184	.....	.....	.....
	.....	4.00	214	1.2	1.2	.8	.6	.2	.2	1.0	1,190	209	25 0	1 1	.....
11....	10.00	.....	215	1.1	1.1	.8	.5	.3	.2	0.9	780	143	.....	.....	.....
	12.00	.....	216	1.1	1.1	.8	.5	.4	.2	0.9	390	178	.....	.....	.....
	.....	4.00	217	1.1	1.1	.8	.6	.3	.2	0.9	1,070	90	4 0	3 0	.....
12....	10.00	.....	218	1.1	1.1	.8	.6	.4	.2	0.9	300	63	.....	.....	.....
	12.00	.....	219	1.1	1.1	.8	.6	.4	.2	0.9	390	19	.....	.....	.....
14....	10.00	.....	220	1.1	1.1	1.0	.8	.5	.2	0.9	500	42	.....	.....	.....
	12.00	.....	221	1.1	1.1	.9	.8	.4	.2	0.9	150	20	.....	.....	.....
14....	.....	4.00	222	1.1	1.1	1.0	.9	.5	.2	0.9	156	27	24 2	9 0	.....
15....	10.00	.....	223	1.2	1.2	1.0	.9	.7	.2	1.0	760	15	.....	.....	.....
	12.00	.....	224	1.1	1.1	.9	.8	.7	.2	0.9	1,070	147	.....	.....	.....
	.....	4.00	225	1.1	1.1	1.0	.8	.7	.2	0.9	1,430	127	18 1	6 2	.....
16....	10.00	.....	226	1.2	1.2	1.0	.9	.7	.2	1.0	210	31	.....	.....	.....
	12.00	.....	227	1.2	1.2	1.0	.9	.7	.2	1.0	250	26	.....	.....	.....
	.....	4.00	228	1.2	1.2	1.1	1.0	.8	.2	1.0	262	32	10 1	3 0	.....
17....	10.00	.....	229	1.2	1.2	1.1	1.0	.8	.2	1.0	90	15	.....	.....	.....
	12.00	.....	230	1.3	1.3	1.1	1.0	.9	.2	1.1	360	22	.....	.....	.....
	.....	4.00	231	1.3	1.3	1.2	1.1	.8	.2	1.1	3,200	21	38 3	3 0	.....
18....	10.00	.....	232	1.4	1.4	1.3	1.3	.9	.2	1.2	920	54	.....	.....	.....
	12.00	.....	233	1.4	1.4	1.3	1.2	1.0	.2	1.2	279	4	.....	.....	.....
	.....	4.00	234	1.4	1.4	1.3	1.2	.9	.2	1.2	610	33	6 0	4 1	.....
19....	10.00	.....	235	1.5	1.5	1.4	1.4	1.0	.2	1.3	850	13	.....	.....	.....
21....	10.00	.....	236	1.7	1.7	1.6	1.5	1.2	.2	1.5	250	8	.....	.....	.....
	12.00	.....	237	1.7	1.7	1.6	1.5	1.3	.2	1.5	960	4	.....	.....	.....
	.....	4.00	238	1.9	1.9	1.8	1.7	1.5	.2	1.7	500	8	14 0	2 0	.....
22....	10.00	.....	239	2.0	2.0	1.9	1.9	1.6	.2	1.8	80	9	.....	.....	.....
	12.00	.....	240	2.1	2.1	2.0	1.9	1.7	.2	1.9	55	8	.....	.....	.....
	.....	4.00	241	2.2	2.2	2.1	2.0	1.8	.2	2.0	64	4	8 0	2 0	.....
23....	10.00	.....	242	2.5	2.5	2.4	2.3	2.1	.2	2.3	200	11	.....	.....	.....
	12.00	.....	243	2.4	2.4	2.3	2.2	2.0	.2	2.2	120	4	.....	.....	.....
	.....	4.00	244	2.4	2.4	2.3	2.2	2.0	.2	2.2	70	10	6 0	0 0	.....
29....	9.00	.....	stop	...	...	...	...	...	...	...	868	73	.....	.....	91.6
Apr. 4....	10.30	.....	start	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
	12.00	.....	245	...	...	...	...	...	...	...	138	105	.....	.....	.....
	.....	4.00	246	...	...	...	...	...	...	...	142	24	.....	.....	.....
5....	10.00	.....	247	...	...	...	...	...	...	...	96	10	.....	.....	.....
	12.00	.....	248	...	...	...	...	...	...	...	180	4	.....	.....	.....

Continued.
FILTERS.
PER ACRE PER DAY.

Colon Bacilli.

Influent.							Effluent.						
C.C. 1	C.C. 5	C.C. 10	C.C. 15	C.C. 20	C.C. 30	C.C. 40	C.C. 1	C.C. 5	C.C. 10	C.C. 15	C.C. 20	C.C. 30	C.C. 40
0	+	+	+	+	.....	.....	0	+	+	+	+	.....	.....
+	0	0	+	+	.....	.....	0	+	+	+	+	.....	.....
0	0	0	0	0	.....	.....	—	—	+	+	+	.....	.....
0	+	+	—	+	.....	.....	—	+	+	+	+	.....	.....
+	+	+	+	+	.....	.....	0	+	+	+	+	.....	.....
0	0	0	0	+	.....	.....	0	+	0	+	+	.....	.....
0	0	0	0	0	.....	.....	0	0	0	+	+	.....	.....
0	0	0	+	+	.....	.....	0	0	+	+	0	.....	.....
0	+	0	+	+	.....	.....	0	0	0	0	+	.....	.....
+	+	+	+	+	.....	.....	—	+	+	+	+	.....	.....
—	+	+	+	+	.....	.....	—	+	+	+	+	.....	.....
—	+	+	+	+	.....	.....	0	+	+	+	+	.....	.....
—	+	+	+	+	.....	.....	0	+	+	+	+	.....	.....
0	+	—	+	+	.....	.....	—	+	—	+	+	.....	.....
0	+	+	—	0	.....	.....	0	0	+	+	+	.....	.....
0	0	0	0	0	.....	.....	0	0	0	+	0	.....	.....
0	+	+	+	+	.....	.....	0	+	0	—	+	.....	.....
+	0	+	+	+	.....	.....	0	0	+	—	+	.....	.....
+	+	—	+	+	.....	.....	0	+	+	0	+	.....	.....
0	0	0	+	+	.....	.....	0	0	0	+	+	.....	.....
0	0	+	+	+	.....	.....	0	0	0	+	0	.....	.....
0	0	0	+	+	.....	.....	0	+	0	0	+	.....	.....
0	0	+	+	+	.....	.....	0	+	0	0	0	.....	.....
0	0	0	0	0	.....	.....	0	0	+	+	+	.....	.....
0	0	0	0	0	.....	.....	0	0	0	0	0	.....	.....
+	+	+	+	+	.....	.....	+	0	+	+	+	.....	.....
+	+	+	+	+	.....	.....	0	+	+	+	+	.....	.....
0	+	+	+	+	.....	.....	0	0	—	+	+	.....	.....
+	+	+	+	+	.....	.....	0	—	—	+	+	.....	.....
—	+	+	+	+	.....	.....	0	+	+	+	+	.....	.....
—	+	+	+	+	.....	.....	0	0	+	+	+	.....	.....
0	+	—	+	+	.....	.....	0	—	0	0	+	.....	.....
0	0	+	+	+	.....	.....	0	0	+	+	+	.....	.....
0	+	+	+	+	.....	.....	0	0	0	0	+	.....	.....
0	+	+	+	+	.....	.....	0	0	0	0	0	.....	.....
0	+	+	0	+	.....	.....	0	+	0	0	0	.....	.....
+	+	+	+	+	.....	.....	0	0	0	0	0	.....	.....
+	+	+	+	+	.....	.....	0	+	+	+	0	.....	.....
0	+	0	+	+	.....	.....	0	0	0	0	0	.....	.....
0	+	+	+	+	.....	.....	0	+	0	0	0	.....	.....
+	+	+	+	+	.....	.....	0	0	0	—	+	.....	.....
0	0	+	+	+	.....	.....	0	0	0	0	+	.....	.....
+	+	+	+	+	.....	.....	0	+	0	0	0	.....	.....
+	+	+	+	+	.....	.....	0	0	0	0	0	.....	.....
0	0	—	0	+	.....	.....	0	0	0	0	0	.....	.....
0	0	0	0	0	.....	.....	0	0	0	0	0	.....	.....
0	0	0	—	0	.....	.....	0	0	0	0	0	.....	.....
0	0	0	0	—	.....	.....	0	0	0	0	0	.....	.....
0	0	0	0	—	.....	.....	0	0	0	0	—	.....	.....
0	0	+	—	+	.....	.....	0	0	0	0	0	.....	.....
0	0	0	0	0	.....	.....	0	0	0	0	—	.....	.....
0	0	0	0	0	.....	.....	0	0	0	0	0	.....	.....
0	0	0	0	0	.....	.....	0	0	0	0	0	.....	.....
0	0	0	0	0	.....	.....	0	0	0	0	0	.....	.....

APPENDIX A—

SAND

TANK "A"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
Apr. 5....	.....	4.00	249	47	2	.....	.....	.....	0	0
6....	10.00	.....	250	30	4	.....	.....	.....	0	0
	12.00	.....	251	12	12	.....	.....	.....	0	0
	.....	4.00	252	15	6	.....	.....	.....	0	0
7....	10.00	.....	253	240	3	.....	.....	.....	—	+
	12.00	.....	254	80	5	.....	.....	.....	0	+
	.....	4.00	255	35	0	.....	.....	.....	0	0
8....	10.00	.....	256	87	5	.....	.....	.....	0	0
	12.00	.....	257	28	2	.....	.....	.....	0	0
	.....	4.00	258	38	4	.....	.....	.....	0	0
9....	10.00	.....	259	3	0	.....	.....	.....	0	+
	12.00	.....	260	0	0	.....	.....	.....	0	0
	.....	1.00	stop	73.2	11.6			84.1		

Chlorine being added

May 4....	.....	4.00	269	80	1	3	1	.....	.....	.....	.....
5....	10.00	.....	270	11	8	7	7	.....	.....	.....	.....
	12.00	.....	271	51	2	11	2	.....	.....	.....	.....
	.....	4.00	272	108	4	6	4	.....	.....	.....	.....
6....	10.00	.....	273	162	19	29	6	.....	.....	.....	.....
	12.00	.....	274	222	25	48	9	.....	.....	.....	.....
	.....	4.00	275	117	12	12	4	.....	.....	.....	.....
7....	10.00	.....	276	19	5	350	4	.....	.....	.....	.....
	12.00	.....	277	25	6	18	5	.....	.....	.....	.....
9....	10.00	.....	278	230	4	30	2	.....	.....	.....	.....
	12.00	.....	279	87	2	22	2	.....	.....	.....	.....
	.....	4.00	280	53	5	60	11	.....	.....	.....	.....
10....	10.00	.....	281	86	9	15	4	.....	.....	.....	.....
	12.00	.....	280	80	2	8	5	.....	.....	.....	.....
	.....	4.00	282	108	7	31	9	.....	.....	.....	.....
11....	10.00	.....	284	17	0	14	10	.....	.....	.....	.....
	12.00	.....	285	149	4	22	6	.....	.....	.....	.....
	.....	4.00	286	38	9	480	2	.....	.....	.....	.....
12....	10.00	.....	287	172	8	23	2	.....	.....	.....	.....
	12.00	.....	288	158	2	16	23	.....	.....	.....	.....
	.....	4.00	289	30	4	8	1	.....	.....	.....	.....
13....	10.00	.....	290	100	7	18	3	.....	.....	.....	.....
	12.00	.....	291	86	8	65	2	.....	.....	.....	.....
	.....	4.00	292	86	6	20	4	.....	.....	.....	.....
14....	10.00	.....	293	.....	1	.....	0	.....	.....	.....	.....
	12.00	.....	294	60	1	24	4	.....	.....	.....	.....
16....	10.00	.....	295	106	3	60	3	.....	.....	.....	.....
	12.00	.....	296	30	1	21	3	93.7	.....	.....	.....
				91.5	5.9	22.2	4.9	78.0			
May 21....	12.00	.....	297	147	3	14	4	.....	.....	.....	.....
25....	10.00	.....	298	12	0	7	0	.....	.....	.....	.....
	12.00	.....	299	22	0	45	0	.....	.....	.....	.....
	.....	4.00	300	15	0	13	2	.....	.....	.....	.....

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
0	0	0	.....	.....	.....	0	0	0	0	0	.....	.....	.....
0	0	0	.....	.....	.....	0	0	0	0	0	.....	.....	.....
+	+	0	.....	.....	.....	0	0	0	0	0	.....	.....	.....
0	0	0	.....	.....	.....	0	0	0	0	0	.....	.....	.....
+	+	+	.....	.....	.....	0	0	0	0	0	.....	.....	.....
+	+	+	.....	.....	.....	0	0	0	0	0	.....	.....	.....
0	0	0	0	—	.....	0	0	0	0	0	.....	0	.....
0	0	0	.....	0	.....	.....	.....	0	0	0	.....	0	.....
0	0	0	.....	0	.....	.....	.....	0	0	0	.....	0	.....
0	0	0	.....	0	.....	.....	.....	0	0	0	.....	0	.....
+	+	+	.....	+	.....	.....	.....	0	0	0	.....	0	.....
0	0	0	.....	0	.....	.....	.....	0	0	0	.....	0	.....

by city at island.

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APPENDIX A—

SAND

TANK "A"—RATE 5,00,0000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910 May 26....	10.00	.....	301	25	0	8	0	98.75	.....	.....
				44.2	.6	15.4	1.2	92.2		
30....	10.00	.....	302	66	5	10	1	.....	.....	.....
	12.00	.....	303	45	2	19	3	.....	.....	.....
	.....	4.00	304	21	2	15	2	.....	.....	.....
31....	10.00	.....	305	65	2	10	4	.....	.....	.....
	12.00	.....	306	62	2	60	5	.....	.....	.....
	.....	4.00	307	55	3	9	2	.....	0	0
June	10.00	.....	308	80	4	6	0	.....	.....	.....
	12.00	.....	309	58	4	4	1	.....	.....	.....
	.....	4.00	310	100	3	8	1	.....	0	0
....	10.00	.....	311	45	1	4	2	.....	.....	.....
	12.00	.....	312	36	1	6	1	.....	.....	.....
	.....	4.00	313	50	0	6	4	.....	0	0
3....	10.00	.....	314	90	3	6	3	.....	.....	.....
	12.00	.....	315	72	3	5	2	.....	.....	.....
	.....	4.00	316	26	1	5	7	.....	0	0
4....	10.00	.....	317	40	4	15	3	.....	.....	.....
	12.00	.....	318	1,440	3	40	3	98.2	0	—
				138.1	2.53	13.4	2.59	80.75		
6....	.....	4.00	319	45	2	30	1	.....	0	0
7....	10.00	.....	320	100	0	8	1	.....	.....	.....
	12.00	.....	321	140	2	9	3	.....	.....	.....
	.....	4.00	322	28	1	2	3	.....	0	0
8....	10.00	.....	323	150	0	4	1	.....	.....	.....
	12.00	.....	324	180	4	10	0	.....	.....	.....
	.....	4.00	325	340	6	11	2	.....	0	0
9....	10.00	.....	326	180	9	5	2	.....	.....	.....
	12.00	.....	327	55	4	5	2	.....	.....	.....
	.....	4.00	328	45	0	8	3	.....	0	0
10....	10.00	.....	329	170	10	14	0	.....	.....	.....
11....	10.00	.....	330	45	2	1	—	.....	.....	.....
	12.00	.....	331	100	0	6	0	.....	0	—
13....	10.00	.....	332	500	2	85	7	.....	.....	.....
	12.00	.....	333	95	3	8	8	.....	.....	.....
	.....	4.00	334	110	14	15	0	.....	0	0
14....	10.00	.....	335	90	7	6	2	.....	0	0
	12.00	.....	336	36	2	7	6	9.72	0	0
	stop	and clea	ned	133.8	3.7	.....	.....	.....		
	.....	4.00	337	50	5	2	1	.....	0	0
15....	10.00	.....	338	35	4	5	1	.....	0	0
	12.00	.....	339	33	3	1	0	.....	0	0
16....	10.00	.....	340	50	4	2	2	.....	+	+
	12.00	.....	341	66	5	0	0	.....	0	0
	.....	4.00	342	58	1	6	3	.....	0	+
17....	10.00	.....	343	84	8	5	0	.....	0	0
	12.00	.....	344	80	15	5	4	.....	0	0
	.....	4.00	345	130	17	5	4	88.1	0	—
18....	10.00	.....	346	53	14	1	3	95.9	0	0
				64.0	1.6	10.2	2.18	7.86		

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
					—								0
0		0			—								0
—		0			—								0
0		0			0								0
0		—			—								0
0		+			+								0
—		—			—								0
0		0			—								0
0		+			+								0
0		0			—								0
—		+											0
0		0			0								0
0		0			0								0
0		0			0								0
0		0			0								0
0		0			0								0
0		0			0								0
+		+											0
0		0			0								0
0		0			+								0
0		0			0								0
0		0			0								0
0		+			+								0
0		0			+								0

APPENDIX A—
SAND
TANK "A"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
June 21....				Strips a	dded to	filters	two men	in tank	sand t	hrown
	.....	4.00	347	110	46	5	8		0	0
22....	10.00	.....	348	16	20	12	3		0	0
	12.00	.....	349	35	48	5	5		0	0
	.....	4.00	350	46	20	28	4		+	0
23....	10.00	.....	351	75	250	3	2		0	0
	12.00	.....	352	45	230	12	3		0	0
	.....	4.00	353	30	350	18	2		0	0
24....	10.00	.....	354	34	400	17	2		0	0
	12.00	.....	355	110	320	8	7		0	+
	.....	4.00	356	51	250	8	0		0	0
25....	10.00	.....	357	20	63	7	17		0	0
	12.00	.....	358	26	60	5	0		0	0
27....	10.00	.....	359	37	16	3	1		0	0
	12.00	.....	360	23	48	1	5		0	—
	.....	4.00	361	40	25	3	1		0	0
28....	10.00	.....	362	52	13	6	3		0	0
	12.00	.....	363	16	12	1	1		0	+
	.....	4.00	364	14	4	10	1		0	0
29....	10.00	.....	365	16	9	0	1		0	0
	12.00	.....	366	21	15	0	1		0	—
	.....	4.00	367	—	—	2	1		0	—
30....	10.00	.....	368	7	7	3	1		—	0
	12.00	.....	369	7	6	2	3		+	—
	.....	4.00	370	15	2	3	0		0	—
July 4....	12.00	.....	371	145	60	66	1		+	+
	.....	4.00	372	32	4	1	7		—	+
5....	10.00	.....	373	145	11	45	3		—	+
	12.00	.....	374	400	8	90	5		—	+
	.....	4.00	375	190	5	30	3		0	+
6....	10.00	.....	376	430	8	23	2		0	+
	12.00	.....	377	140	7	3	3		0	—
	.....	4.00	378	18	4	9	1		—	—
7....	10.00	.....	379	175	3	33	3		0	+
	12.00	.....	380	110	4	3	1		—	—
	.....	4.00	381	90	2	3	3		0	+
8....	10.00	.....	382	42	8	6	0		0	0
	12.00	.....	383	50	5	3	3		0	—
	.....	4.00	384	44	14	21	1		0	0
9....	10.00	.....	385	28	14	1	0		0	0
	12.00	.....	386	325	4	165	2		+	+
11....	12.00	.....	387	115	13	4	5		0	+
	.....	4.00	388	110	12	4	2		0	—
12....	10.00	.....	389	80	—	9	1		0	0
	12.00	.....	390	94	7	12	1		—	—
	.....	4.00	391	31	2	6	5		0	+
13....	10.00	.....	392	28	5	3	3		—	—
	12.00	.....	393	21	11	8	1		0	—
	.....	4.00	394	65	5	6	1		0	0
14....	10.00	.....	395	60	10	15	2		0	0
	12.00	.....	396	60	7	10	3		0	+
	.....	4.00	397	68	1	20	3		0	0
15....	10.00	.....	398	230	13	10	2		0	+
	12.00	.....	399	96	7	3	2		0	0
	.....	4.00	400	17	4	6	1		—	—

End of infected period due to placing strips in the filters.

NOTE.—Filter Effluent count higher than Influent.

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
up for at least 18 inches.													
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	+	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
+	.....	0	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	+
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	0
+	.....	0	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
0	.....	+	.....	.....	0	.....	.....	.....	.....	.....	0	.....	.....
0	.....	+	.....	.....	0	.....	.....	.....	.....	.....	0	.....	.....
0	.....	—	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
—	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	0	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	+	.....	.....	0	.....	.....	.....	.....	.....	0	.....	.....
0	.....	0	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	0	.....	.....
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	0	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
0	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
0	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
0	.....	+	.....	.....	0	.....	.....	.....	.....	.....	0	.....	.....
+	.....	.....	+	.....	+	.....	.....	.....	0	.....	.....	.....	.....
—	.....	.....	+	.....	+	.....	.....	.....	0	.....	.....	.....	.....
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	0	.....	.....
—	.....	.....	+	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	0	.....	.....
0	.....	.....	—	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	.....	—	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	0	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	—	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	—	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	—	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	—	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	.....	+	.....	*	.....	.....	.....	.....	.....	.....	.....	.....
+	.....	.....	*	.....	*	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0

APPENDIX A—

SAND

TANK "A"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
July 16....	10.00	.....	401	140	3	35	3	.....	+	+
	12.00	.....	402	280	2	51	1	.....	+	+
18....	10.00	.....	403	275	5	105	3	.....	+	+
	12.00	.....	404	116	11	17	5	.....	0	0
	.....	4.00	405	36	5	1	1	.....	0	+
19....	10.00	.....	406	67	6	6	2	.....	0	+
	12.00	.....	407	—	—	13	2	.....	0	0
	.....	4.00	408	100	13	12	7	.....	0	0
20....	10.00	.....	409	170	6	3	2	.....	+	—
	12.00	.....	410	126	5	80	6	.....	+	+
	.....	4.00	411	84	5	19	5	.....	0	+
21....	10.00	.....	412	115	8	45	2	.....	—	+
	12.00	.....	413	120	6	21	3	.....	—	0
	.....	4.00	414	120	7	64	2	.....	0	0
22....	10.00	.....	415	100	4	9	2	.....	0	0
	12.00	.....	416	125	14	11	2	.....	0	0
	.....	4.00	417	70	18	10	2	.....	+	+
23....	10.00	.....	418	70	2	3	1	.....	0	0
	12.00	.....	419	70	6	2	4	.....	+	+
	.....	4.00	420	—	—	—	—	93.0		
				115.0	8.0	22.5	2.5	88.9		
July 26....	.....	4.00	420	62	33	10	8	.....	0	+
27....	10.00	.....	421	95	5	12	4	.....	.....	.....
	12.00	.....	422	18	4	4	1	.....	.....	.....
	.....	4.00	423	145	5	—	12	.....	0	0
28....	10.00	.....	424	10	5	6	0	.....	0	+
	12.00	.....	425	145	5	11	5	.....	.....	.....
	.....	4.00	426	175	2	91	4	.....	+	+
29....	10.00	.....	427	65	3	7	2	.....	0	0
	12.00	.....	428	39	29	4	2	.....	0	0
30....	10.00	.....	429	350	13	3	2	.....	0	0
Aug. 2....	10.00	.....	430	10	2	7	4	.....	.....	.....
	12.00	.....	431	6	1	9	3	.....	.....	.....
3....	10.00	.....	432	10	4	3	2	.....	.....	0
	12.00	.....	433	10	3	3	2	.....	.....	0
5....	10.00	.....	434	181	4	2	0	.....	0	0
	12.00	.....	435	91	5	27	0	.....	.....	0
6....	10.00	.....	436	24	0	1	—	.....	.....	.....
	12.00	.....	437	40	1	—	1	.....	.....	.....
8....	10.00	.....	438	80	3	0	0	.....	.....	.....
	12.00	.....	439	102	1	—	12	.....	.....	.....
9....	10.00	.....	440	43	6	1	—	.....	.....	.....
	12.00	.....	441	99	0	1	0	.....	.....	.....
10....	10.00	.....	442	13	1	1	1	.....	0	0
	12.00	.....	443	23	0	0	1	.....	0	0
11....	10.00	.....	444	58	0	47	0	.....	0	0
	12.00	.....	445	58	0	17	0	.....	0	—
12....	10.00	.....	446	49	2	65	0	.....	—	0
	12.00	.....	447	52	0	20	1	.....	0	0
13....	12.00	.....	448	121	—	4	1	.....	0	0
15....	10.00	.....	449	13	2	2	0	.....	0	0
	12.00	.....	450	115	0	1	—	.....	0	+
16....	10.00	.....	451	63	0	4	0	.....	0	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	—	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	0	.....	+	.....	.....	.....	.....	.....	.....	.....	—
+	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	0
—	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	—	.....	.....	.....	.....	.....	.....	.....	—
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	—
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	—
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	+
0	.....	.....	0	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	—	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
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0	.....	.....	—	.....	+	.....	.....	.....	.....	.....	.....	.....	+
—	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	+
0	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0	.....	.....
0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0	.....	.....
0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0	.....	.....
—	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0	.....	.....
0	.....	0	0	.....	.....	.....	.....	0	.....	.....	0	.....	.....
0	.....	0	0	.....	.....	.....	.....	0	.....	.....	0	.....	.....
0	.....	0	0	.....	.....	.....	.....	0	.....	.....	0	.....	.....
0	.....	0	+	.....	.....	.....	.....	0	.....	.....	0	.....	.....
0	.....	0	0	.....	.....	.....	.....	0	.....	.....	0	.....	.....
0	.....	0	0	.....	.....	.....	.....	0	.....	.....	0	.....	0
0	.....	.....	.....	0	0	.....	.....	.....	.....	.....	0	.....	0
0	.....	.....	.....	+	0	.....	.....	.....	.....	.....	0	.....	0
0	.....	.....	.....	—	+	.....	.....	.....	.....	.....	—	.....	+
+	.....	.....	.....	—	+	.....	.....	.....	.....	.....	—	.....	—
0	.....	.....	.....	—	+	.....	.....	.....	.....	.....	—	.....	—
0	.....	.....	.....	0	+	.....	.....	.....	.....	.....	0	.....	—
0	.....	.....	.....	0	+	.....	.....	.....	.....	.....	0	.....	0
0	.....	.....	.....	+	+	0	0	0	.....	.....	0	.....	0
+	.....	.....	.....	+	.....	0	0	0	.....	.....	0	.....	0
+	.....	.....	.....	0	.....	0	0	0	.....	.....	0	.....	0

APPENDIX A—

SAND

TANK "A"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910	12.00	.....	452	17	1	0	0	.....	0	0
Aug. 17....	12.00	.....	453	51	10	1	1	.....	0	0
18....	10.00	.....	454	127	7	10	1	.....	0	—
	12.00	.....	455	93	1	2	3	.....	0	—
19....	10.00	.....	456	436	8	5	—	.....	0	+
	12.00	.....	457	345	5	6	0	.....	0	0
20....	10.00	.....	458	121	16	2	3	.....	0	+
22....	10.00	.....	459	186	—	10	10	.....	0	0
	.....	4.00	460	142	13	12	—	.....	0	—
23....	.....	4.00	461	.....	—	.....	0	94.5	.....	.....
				94.7	5.1	10.8	2.3	78.7		
30....	10.00	.....	462	233	156	12	105	.....	0	—
	12.00	.....	463	900	126	90	105	.....	—	—
31....	10.00	.....	464	140	73	8	74	.....	0	0
	12.00	.....	465	130	80	31	70	.....	+	+
	.....	4.00	466	60	85	4	120	.....	0	—
Sept. 1....	10.00	.....	467	280	45	34	34	.....	—	+
	12.00	.....	468	140	41	21	28	.....	+	+
2....	10.00	.....	469	1440	60	?	17	.....	0	+
	12.00	.....	470	185	50	24	21	.....	+	+
	.....	4.00	471	164	60	36	33	.....	+	+
3....	10.00	.....	472	24	25	4	56	.....	0	+
	12.00	.....	473	18	12	6	4	.....	+	+
6....	10.00	.....	474	290	62	63	8	.....	.....	+
	12.00	.....	475	18	6	2	2	.....	.....	0
	.....	4.00	476	36	8	3	5	.....	—	+
7....	10.00	.....	477	130	2	11	2	.....	+	+
	12.00	.....	478	343	5	57	7	.....	.....	.....
	.....	4.00	479	150	6	3	5	.....	.....	.....
8....	10.00	.....	480	108	5	24	12	.....	+	+
	12.00	.....	481	62	4	11	2	.....	0	+
	.....	4.00	482	—	7	4	9	.....	.....	+
9....	10.00	.....	483	310	14	47	6	.....	—	+
	12.00	.....	484	224	6	32	4	.....	+	+
	.....	4.00	485	116	5	45	9	.....	+	+
10....	10.00	.....	486	265	4	17	25	.....	+	+
	12.00	.....	487	77	3	25	4	.....	+	+
12....	10.00	.....	488	520	3	10	4	.....	+	+
	12.00	.....	stop'd	244.7	35.1	23.3	28.5			
	.....	.....	489	.....	.....	.....	.....	.....	.....	.....
	.....	.....	490	.....	.....	.....	.....	.....	.....	.....
13....	10.00	.....	491	580	8	7	14	.....	.....	.....
14....	10.00	.....	492	2,000	50	80	44	.....	+	+
	12.00	4.00	493	1,200	60	54	85	.....	+	+
	.....	4.00	494	900	2	25	11	.....	+	+
15....	10.00	.....	495	12	3	1	9	.....	+	+
	12.00	.....	496	16	4	3	2	.....	+	+
	.....	4.00	497	28	7	12	3	.....	+	+
16....	10.00	.....	498	32	12	7	9	.....	0	+
	12.00	.....	499	9	1	—	—	.....	0	+
	.....	4.00	500	16	3	4	6	.....	—	+
17....	10.00	.....	501	12	6	—	2	.....	—	+

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
+	.....	.....	.....	0	.....	0	0	0	.....	.....	0	.....	.....
0	.....	.....	.....	0	—	0	0	0	.....	.....	0	.....	.....
0	.....	.....	.....	0	+	0	0	0	.....	.....	0	.....	.....
0	.....	.....	.....	0	+	0	0	0	.....	.....	0	.....	0
+	.....	.....	.....	+	+	.....	.....	0	.....	.....	0	.....	0
+	.....	.....	.....	+	.....	.....	.....	0	.....	.....	0	.....	0
0	.....	.....	.....	+	—	.....	.....	0	.....	.....	0	.....	0
0	.....	.....	.....	+	+	.....	.....	0	.....	.....	0	.....	—
0	.....	.....	.....	+	+	.....	.....	—	.....	.....	—	.....	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
—	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	—	.....	+
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	+	.....	+
0	.....	.....	+	.....	—	.....	.....	.....	.....	.....	+	.....	+
+	.....	.....	+	.....	—	.....	+	+	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	—	+	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	+	+	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	+	+	.....	.....	+	.....	+
—	.....	.....	+	.....	+	.....	+	+	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	+	+	.....	.....	+	.....	+
.....	.....	.....	—	.....	+	.....	+	.....	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	....	+	.....	+
+	.....	.....	+	.....	+	.....	—	.....	.....	.....	.....	.....	+
+	.....	.....	+	.....	+	.....	—	.....	.....	.....	.....	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	—	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
+	.....	.....	+	.....	+	+	0	—	.....	.....	+	.....	+
+	.....	.....	+	.....	+	—	—	+	.....	.....	—	.....	+
+	.....	.....	+	.....	+	—	+	+	.....	.....	+	.....	+
+	.....	.....	+	.....	+	—	—	+	.....	.....	+	.....	+
+	.....	.....	+	.....	.....	.....	+	+	.....	.....	+	.....	.....
+	.....	+	.....	.....	.....	+	+	.....	+	.....	+	.....	.....
.....	.....	.....	+	.....	+	.....	0	.....	.....	.....	+	.....	.....
.....	.....	.....	.....	.....	+	.....	—	.....	.....	.....	+	.....	+
.....	+	.....	.....	.....	.....	.....	0	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	+	.....	+	.....	+	.....	+	+	.....	.....	+	.....	+
.....	+	.....	+	.....	+	.....	+	+	.....	.....	+	.....	.....
.....	+	.....	+	.....	+	.....	+	+	.....	.....	+	.....	.....
.....	+	.....	+	.....	+	.....	0	+	.....	.....	0	.....	.....
.....	+	.....	+	.....	+	.....	0	+	.....	.....	+	.....	.....
.....	+	.....	+	.....	+	.....	+	0	.....	.....	+	.....	.....
+	.....	.....	+	.....	+	.....	—	—	.....	.....	—	.....	.....
+	.....	.....	+	.....	+	.....	0	+	.....	.....	+	.....	.....
+	.....	.....	+	.....	+	.....	0	—	.....	.....	+	.....	.....
—	.....	.....	+	.....	.....	.....	0	—	.....	.....	0	.....	.....

APPENDIX A—
SAND

EXPERIMENTAL STATION. TANK "A"—RATE 5,000,000 GALLONS

Date. 1910	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
Sept. 19....	10.00	.....	502	73	10	15	2	.....	—	+
	12.00	.....	503	23	4	11	2	.....	+	—
	.....	4.00	504	103	1	4	0	.....	+	+
20....	10.00	.....	505	35	12	3	—	.....	*0	0
22....	.....	5.00	506	142	3	9	2	.....	0	+
23....	10.00	.....	507	96	6	1	4	.....	+	+
	12.00	.....	508	320	4	2	2	.....	0	0
24....	12.00	.....	509	43	2	—	1	.....	—	+
26....	12.00	.....	510	—	—	—	—	.....	0	—
27....	.....	4.00	511	—	—	3	1	.....	0	—
28....	12.00	.....	512	536	11	44	3	.....	—	+
29....	.....	5.00	513	590	17	—	2	.....	—	—
30....	9.00	.....	stop'd	323.6	10.7	15.8	10.1			
30....	.....	5.00	514	710	70	69	24	.....	0	0
Oct. 1....	12.00	.....	514	51	3	45	3	.....	0	0
3....	.....	5.00	516	247	5	5	3	.....	0	0
4....	.....	4.00	517	30	7	55	7	.....	.....	0
5....	12.00	.....	518	21	8	35	0	.....	.....	0
6....	12.00	.....	519	34	5	6	0	.....	.....	+
7....	12.00	.....	520	141	14	13	2	.....	.....	+
8....	12.00	.....	521	145	4	1	0	.....	.....	0
10....	12.00	.....	522	153	8	2	3	.....	.....	0
11....	.....	4.00	523	200	2	2	2	.....	.....	.....
12....	12.00	.....	524	71	—	0	1	.....	0	0
13....	12.00	.....	525	28	5	3	1	.....	0	0
14....	12.00	.....	526	156	4	2	2	.....	0	0
15....	12.00	.....	527	71	3	6	—	.....	0	0
17....	.....	5.00	528	388	7	3	4	.....	0	+
18....	.....	5.00	529	180	3	9	0	.....	0	+
19....	.....	5.00	530	800	3	900	1	.....	0	0
20....	10.00	.....	531	640	60	50	47	.....	0	+
21....	.....	4.00	532	1,200	5	359	5	.....	—	—
22....	10.00	.....	stop'd	277.1	12	82.3	5.8			

RATE 10,000,000 GALLONS

Oct. 24....	10.00	.....	534	42	11	1	5	.....	0	0
	.....	4.00	535	240	14	6	0	.....	0	+
25....	10.00	.....	536	130	46	3	1	.....	0	—
26....	10.00	.....	537	196	1	5	1	.....	0	—
27....	12.00	.....	538	—	0	8	3	.....	0	0
28....	.....	5.00	539	37	67	9	93	.....	0	0
29....	12.00	.....	540	59	274	7	2	.....	0	0
Nov. 1....	10.00	.....	541	75	64	4	0	.....	0	0
4....	.....	3.00	542	150	200	7	—	.....	0	0
5....	10.30	.....	543	52	17	6	—	.....	0	0
7....	9.33	.....	stop'd	109	69.4	5.6	13.1			
9....	10.00	.....	544	1	2,500	3	14	.....	0	0
10....	10.00	.....	545	186	700	9	7	.....	0	0
11....	.....	5.00	stop'd	93.5	1,600	6	10.5			

The 37°C. Incubator Temperature jumped to 57°C.

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
+	.....	.....	+	.....	.....	.....	0	0	.....	.....	0	.....	.....
.....	+	.....	+	.....	.....	.....	0	.....	0	.....	0	.....	.....
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	+
.....	0	.....	0	.....	0	.....	0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	.....	.....	0	.....	0	.....	+
.....	+	.....	+	.....	+	.....	.....	.....	—	.....	0	.....	—
.....	—	.....	+	.....	—	.....	0	.....	0	.....	0	.....	—
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	0	.....	0	.....	—	.....	—
0	.....	.....	+	.....	+	.....	0	.....	0	.....	—	.....	—
.....	—	.....	—	.....	+	.....	.....	.....	—	.....	—	.....	—
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
.....	0	.....	—	.....	+	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	+	.....	.....	.....	0	.....	0	.....	+
.....	0	.....	+	.....	+	.....	.....	.....	—	.....	+	.....	-
.....	0	.....	+	.....	+	.....	.....	.....	.....	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	—	.....	+
.....	.....	.....	.....	.....	0	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	+
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
.....	+	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
.....	.....	.....	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
.....	0	.....	0	.....	—	.....	.....	.....	.....	.....	.....	.....	0
.....	+	.....	+	.....	+	.....	.....	.....	0	.....	0	.....	0

PER ACRE PER DAY.

.....	0	.....	—	.....	—	0	—	.....	—	.....	—	.....	—
.....	+	.....	+	.....	+	0	0	.....	—	.....	0	.....	—
.....	—	.....	+	.....	+	0	0	.....	0	.....	0	.....	—
.....	0	.....	—	.....	0	0	0	.....	0	.....	+	.....	0
.....	—	.....	0	.....	+	0	0	.....	0	.....	—	.....	—
.....	0	.....	0	.....	0	0	0	.....	0	.....	—	.....	—
.....	—	.....	—	.....	+	0	0	.....	0	.....	0	.....	+
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	—
.....	0	.....	—	.....	+	0	0	.....	0	.....	0	.....	+
.....	0	.....	0	.....	0	0	0	.....	—	.....	0	.....	—
.....	0	.....	0	.....	—	0	+	.....	0	.....	+	.....	0
.....	0	.....	0	.....	+	0	0	.....	0	.....	—	.....	—

APPENDIX A—

SAND

Tank "A"—RATE 3,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
Nov. 12....	12.00	.....	547	12	3,000	3	5	.....	0	0
14....	10.00	.....	548	2	500	5	3	.....	0	0
15....	11.00	.....	549	0	250	2	3	.....	0	0
16....	12.00	.....	550	0	224	1	3	.....	0	0
17....	.....	5.00	551	0	100	0	0	.....	0	0
18....	11.30	.....	552	3	1,000	1	0	.....	0	0
19....	10.30	.....	553	0	374	1	0	.....	0	0
21....	.....	5.00	554	5	302	1	0	.....	0	0
22....	10.00	.....	555	8	265	8	2	.....	0	0
23....	.....	4.00	556	6	147	29	26	.....	0	0
24....	.....	5.00	557	1	90	1	1	.....	0	0
25....	10.30	.....	558	9	200	0	1	.....	0	0
26....	.....	1.00	559	5	190	4	5	.....	0	0
28....	10.00	.....	560	—	—	1	2	.....	0	0
29....	10.00	.....	561	—	—	11	9	.....	0	0
Dec. 1....	.....	5.00	562	2	15	2	5	.....	0	0
2....	.....	4.00	563	14	960	9	3	.....	0	0
3....	12.30	.....	564	16	58	10	6	.....	0	0
5....	.....	4.00	565	22	56	6	0	.....	0	0
6....	10.00	.....	566	7	80	2	1	.....	0	0
7....	.....	4.00	567	56	15	4	1	.....	0	0
8....	.....	3.30	568	11	20	3	1	.....	0	0
9....	.....	4.30	569	15	207	4	3	.....	.....	.....
10....	11.50	.....	570	100	12	—	—	.....	.....	.....
14....	.....	3.00	571	32	71	2	1	.....	0	0
15....	.....	5.30	572	22	55	5	3	.....	0	0
16....	.....	5.00	573	13	27	1	0	.....	0	0
19....	.....	3.00	574	45	39	2	1	.....	0	+
22....	.....	4.00	575	53	11	0	0	.....	0	0
27....	.....	4.00	576	50	65	—	—	.....	0	0
30....	.....	4.00	577	458	46	6	2	.....	0	0
Jan. 3....	.....	5.00	578	0	9	2	2	.....	+	0
				32.6	273.6	4.2	2.96			

NOTE.—Filter infection 18°C-22°C Effluent has higher count than Influent.

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	+
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	—	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	+	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	—	.....	0	.....	0
.....	—	.....	—	.....	+	.....	.....	.....	—	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	0	.....	.....	0	.....	—
.....	0	.....	0	.....	0	.....	0	0	.....	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	0	.....	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	0	.....	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	0	.....	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	0	.....	.....	0	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	0	.....	—	.....	0	.....	.....	0	.....	.....	0	.....	0
.....	0	.....	+	.....	0	.....	.....	0	.....	.....	+	.....	+
.....	0	.....	+	.....	0	.....	.....	0	.....	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	0	.....	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	0	.....	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	0	.....	.....	0	.....	0
.....	+	.....	+	.....	+	.....	.....	+	.....	.....	+	.....	+
.....	0	.....	0	.....	0	.....	.....	0	.....	.....	0	.....	+

APPENDIX A—

SAND

TANK "B"—RATE 15,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Gauge Read. 6	Max. Loss of Head.	Bacterial Counts. 18°-22°C. Inf.	Bacterial Counts. 18°-22°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1909										
Sept. 15....	10.20	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	10.30	.....	1	.....	.....	90	90	.....	.....	.....
	12.00	.....	2	.....	.....	120	40	.....	.....	.....
	.....	4.00	3	.....	.....	310	20	.....	.....	.....
16....	9.30	.....	4	1.95	1.95	230	50	.....	.....	.....
	12.00	.....	5	.....	.....	170	60	.....	.....	.....
	.....	4.00	6	.....	.....	70	42	.....	.....	.....
17....	9.30	.....	7	3.0	3.0	520	32	.....	.....	.....
	12.00	.....	8	.....	.....	180	30	.....	.....	.....
	.....	3.45	9	.....	.....	70	26	.....	.....	.....
	.....	4.15	stop	3.3	3.3	173.3	43.3	75.0	.....	.....
18....	11.40	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	12.00	.....	11	1.9	1.9	—	—	.....	.....	.....
20....	12.00	.....	12	3.15	3.15	260	12	.....	.....	.....
	.....	4.00	13	3.3	3.3	150	18	.....	.....	.....
	.....	4.00	stop	.....	.....	205	15	94.6	.....	.....
21....	11.45	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	12.00	.....	15	.....	.....	80	26	.....	.....	.....
	.....	4.00	16	1.8	1.8	148	14	.....	.....	.....
22....	9.30	.....	17	2.15	2.15	560	11	.....	.....	.....
	12.00	.....	18	.....	.....	250	16	.....	.....	.....
	.....	4.00	19	.....	.....	680	8	.....	.....	.....
23....	9.30	.....	20	3.3	3.3	350	5	.....	.....	.....
	9.30	.....	stop	0	.....	344.6	13.3	96.2	.....	.....
	.....	12.45	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	4.15	22	.....	.....	400	3	.....	.....	.....
24....	9.45	.....	23	1.45	1.45	540	6	.....	.....	.....
	12.00	.....	24	.....	.....	250	11	.....	.....	.....
	.....	4.00	25	.....	.....	430	—	.....	.....	.....
25....	9.30	.....	26	2.05	2.05	390	2	.....	.....	.....
	12.00	.....	27	.....	.....	24,000	5	.....	.....	.....
	.....	4.00	28	.....	.....	290	10	.....	.....	.....
27....	8.30	.....	stop	3.3	3.3	3,240	5.2	99.8	.....	.....
	.....	12.30	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	4.00	31	1.8	1.8	390	8	.....	.....	.....
28....	9.30	.....	32	1.8	1.8	1,180	6	.....	.....	.....
	12.00	.....	33	.....	.....	920	8	.....	.....	.....
	.....	4.00	34	3.1	3.1	730	11	.....	.....	.....
29....	9.30	.....	35	.....	.....	1,200	6	.....	.....	.....
	.....	4.00	36	.....	.....	110	0	.....	.....	.....
	.....	4.30	stop	3.3	3.3	788.3	6.5	99.1	.....	.....
30....	2.50	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	2.50	39	.....	.....	—	21	.....	.....	.....
	.....	3.00	40	.....	.....	—	15	.....	.....	.....
	.....	3.30	41	.....	.....	—	13	.....	.....	.....
	.....	3.45	42	.....	.....	—	15	.....	.....	.....
	.....	4.00	43	.....	.....	214	11	.....	.....	.....
Oct. 1....	9.30	.....	44	.....	.....	280	8	.....	.....	.....
	12.00	.....	48	.....	.....	120	4	.....	.....	.....
	.....	4.00	49	3.0	3.0	76	12	.....	.....	.....

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

APPENDIX A—

SAND

TANK "B"—RATE 15,000,000 GALLONS

EXPERIMENTAL STATION.

Date. 1909	Hour. A.M.	Hour. P.M.	Serial No.	Gauge Read. 6	Max. Loss of Head.	Bacterial Counts. 18°-22°C. Inf.	Bacterial Counts. 18°-22°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
Oct. 2....	9.30	.....	50	.....	.....	380	1	.....	.....	.....
	12.00	.....	51	2.6	2.6	257	1	.....	.....	.....
4....	9.30	.....	stop	3.3	3.3	219.5	6.1	97.4		
	.....	3.00	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	4.00	53	2.4	2.4	157	10	.....	.....	.....
5....	9.30	.....	54	2.1	2.1	200	20	.....	.....	.....
	12.00	.....	55	2.05	2.05	112	8	.....	.....	.....
	.....	4.00	56	2.4	2.4	173	0	.....	.....	.....
6....	9.30	.....	57	1.85	1.85	440	6	.....	.....	.....
	12.00	.....	58	2.05	2.05	230	2	.....	—	—
	.....	4.00	59	1.85	1.85	260	2	.....	+	+
7....	9.30	.....	60	2.3	2.3	270	1	.....	+	+
	12.00	.....	61	2.4	2.4	220	1	.....	+	+
	.....	4.00	62	2.5	2.5	220	4	.....	—	+
8....	9.30	.....	63	3.0	3.0	940	12	.....	.....	.....
	12.00	.....	64	3.2	3.2	290	8	.....	.....	.....
	.....	12.45	stop	3.3	3.3	292.6	6.1	97.9		
	.....	5.00	start	0.0	0.0	.....	.....	.....	.....	.....
9....	9.30	.....	66	2.1	2.1	200	5	.....	.....	.....
	12.00	.....	67	2.1	2.1	400	2	.....	+	+
11....	9.30	.....	68	1.9	1.9	560	1	.....	-	—
	12.00	.....	69	2.0	2.0	150	2	.....	-	+
	.....	4.00	70	1.9	1.9	89	0	.....	—	+
12....	9.00	.....	71	2.25	2.25	144	3	.....	—	+
	12.00	.....	72	2.3	2.3	151	2	.....	—	+
	.....	4.00	73	2.4	2.4	157	0	.....	+	+
13....	9.30	.....	74	3.0	3.0	151	1	.....	—	+
	12.00	.....	75	3.1	3.1	134	0	.....	+	+
	.....	4.00	76	3.25	3.25	51	0	.....	+	+
14....	9.30	.....	77	4.25	4.25	200	4	.....	—	+
	9.30	.....	stop	.....	.....	198.9	1.6	99.4		
15....	.....	12.15	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	4.00	82	2.2	2.2	240	2	.....	.....	.....
16....	9.30	.....	83	1.9	1.9	70	5	.....	.....	.....
	12.00	.....	84	1.7	1.7	202	3	.....	.....	.....
18....	12.00	.....	85	2.2	2.2	220	2	.....	.....	.....
	.....	3.30	86	2.4	2.4	129	6	.....	.....	.....
19....	9.30	.....	87	3.15	3.15	160	3	.....	.....	.....
	10.45	.....	stop	3.3	3.3	170.1	3.5	97.9		
20....	9.30	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	9.30	.....	90	.....	.....	170	4	.....	.....	.....
	12.00	.....	91	1.8	1.8	1,200	4	.....	.....	.....
	.....	4.00	92	2.0	2.0	3,460	161	.....	.....	.....
21....	9.30	.....	93	2.8	2.8	2,580	11	.....	.....	.....
	12.00	.....	94	3.3	3.3	920	89	.....	.....	.....
	.....	1.00	stop	3.3	3.3	1,666	53.6	96.9		
	.....	4.30	start	0.0	0.0	.....	.....	.....	.....	.....
22....	9.00	.....	stop	3.3	3.3	.....	.....	.....	.....	.....
26....	.....	3.30	start	0.0	0.0	.....	.....	.....	.....	.....
26....	.....	4.00	96	2.9	2.9	160	7	.....	—	+
27....	9.30	.....	97	2.15	2.15	91	8	.....	—	+
	12.00	.....	98	2.1	2.1	60	3	.....	—	+
	.....	4.00	99	2.1	2.1	40	4	.....	+	—

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
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.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
—	—	+	+	+	+	—	—	—	—	—	+	+	+
+	+	+	+	+	+	—	—	—	—	—	+	+	—
+	+	+	+	+	+	—	—	—	—	+	+	+	+
+	+	+	+	+	+	—	—	+	+	+	+	+	+
+	+	+	+	+	+	—	—	+	+	+	+	+	+
.....	.....	.....	.....	.....	.....	—	—	—	+	+	+	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
+	+	+	+	+	+	+	—	+	—	+	+	+	+
+	+	+	+	+	+	—	—	—	—	—	—	+	+
+	+	+	+	+	+	—	—	—	—	—	—	—	—
+	+	+	+	+	+	—	+	—	—	—	+	+	+
+	+	+	+	+	+	—	—	—	—	—	+	+	+
+	+	+	+	+	+	—	—	+	+	—	—	+	+
+	+	+	+	+	+	—	+	—	—	+	+	+	+
+	+	+	+	+	+	—	—	—	—	+	+	+	+
+	+	+	+	+	+	—	—	—	—	+	+	+	+
+	—	+	+	+	+	—	—	—	—	—	+	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
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.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
+	+	+	+	+	+	—	—	—	—	+	—	—	—
+	+	+	+	+	+	+	—	+	+	+	+	+	+
+	+	+	+	+	+	—	—	+	+	+	+	+	+
+	+	+	+	+	+	+	+	+	+	+	+	+	+

APPENDIX A—

SAND

TANK "B"—RATE 15,000,000 GALLONS

EXPERIMENTAL STATION.

Date. 1909	Hour. A.M.	Hour. P.M.	Serial No.	Gauge read. 6	Max. loss of head.	Bacterial Counts. 18°-22°C Inf.	Bacterial Counts. 18°-22°C Eff	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
Oct. 28....	12.00	.....	100	1.6	1.6	35	0	.....	—	+
	.....	3.00	101	1.7	1.7	60	2	.....	.....	.....
29....	.....	3.00	102	2.1	2.1	60	3	.....	—	+
30....	9.30	.....	103	2.8	2.8	55	3	.....	+	+
	12.00	.....	104	3.1	3.1	80	3	.....	.....	.....
	12.00	.....	stop	.....	.....	71.2	36.6	48.6		
Nov. 1....	11.30	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	12.00	.....	106	2.5	2.5	60	26	.....	.....	.....
	.....	3.00	107	2.6	2.6	30	1	.....	.....	.....
3....	.....	4.00	108	2.0	2.0	41	6	.....	.....	.....
5....	9.30	.....	109	2.5	2.5	70	4	.....	.....	.....
	12.00	.....	110	2.6	2.6	60	4	.....	.....	.....
	.....	3.00	111	2.65	2.65	35	12	.....	.....	.....
6....	9.30	.....	112	3.3	3.3	40	4	.....	.....	.....
	10.00	.....	stop	3.3	3.3	56	9.5	83.1		
	.....	1.00	start	0.0	0.0	.....	.....	.....	.....	.....
8....	12.00	.....	114	1.6	1.6	55	7	.....	.....	.....
	.....	4.00	115	1.7	1.7	85	4	.....	.....	.....
9....	10.00	.....	116	2.1	2.1	100	10	.....	.....	.....
	12.00	.....	117	2.2	2.2	75	15	.....	.....	.....
	.....	4.00	118	2.6	2.6	65	6	.....	.....	.....
10....	9.30	.....	stop	3.3	3.3	76	8.4	89.0		
11....	12.00	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	3.30	124	2.4	2.4	35	1	.....	—	—
12....	9.30	.....	125	2.3	2.3	40	—	.....	+	—
	.....	3.00	126	2.3	2.3	125	6	.....	—	—
13....	9.30	.....	127	2.8	2.8	85	5	.....	—	—
	12.00	.....	128	2.9	2.9	90	17	.....	—	—
	.....	1.00	stop	3.3	3.3	75	5.8	92.3		
16....	.....	2.00	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	3.30	133	2.3	2.3	100	10	.....	—	—
17....	12.00	.....	134	1.2	1.2	430	—	.....	—	—
	.....	4.00	135	2.3	2.3	800	—	.....	+	+
18....	9.30	.....	136	3.25	3.25	250	—	.....	—	+
	10.00	.....	stop	3.3	3.3	395	10	97.5		
19....	9.30	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	9.30	.....	139	.....	.....	280	32	.....	.....	.....
	12.00	.....	140	2.1	2.1	135	20	.....	.....	.....
22....	.....	3.30	141	2.1	2.1	6,400	114	.....	+	+
23....	9.00	.....	stop	.....	.....	2,281	55.3	97.6		
27....	10.00	.....	start	0.0	0.0	.....	.....	.....	.....	.....
29....	9.30	.....	147	.....	.....	620	49	.....	+	+
29....	12.00	.....	148	.....	.....	470	41	.....	—	+
	.....	4.00	149	.....	.....	300	29	.....	—	+
	.....	4.00	stop	.....	.....	463	39.6	91.4		
30....	.....	1.30	start	.....	.....	.....	.....	.....	.....	.....
Dec. 1....	9.30	.....	151	.....	.....	90	23	.....	.....	.....
	12.00	.....	152	.....	.....	140	14	.....	.....	.....
	.....	4.00	153	.....	.....	110	20	.....	.....	.....
2....	9.30	.....	154	.....	.....	160	18	.....	.....	.....
3....	9.30	.....	stop	.....	.....	125	18.7	85.0	.....	.....

New sand placed in February. 20 cubic yards received on Jan. 28, 1910.

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
+	+	+	+	+	+	—	—	+	—	—			
+	+	+	+	+	+	—	—	+	—	+	+		
—	+	+	+	+	+	—	+	+	+	—	+		
+	+	—	+	+	+	—	+	+	—	—	+	+	+
+	+	+	+	+	+	—	—	+	—	—	—	+	+
—	+	+	+	+	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	+	—	—	+
+	+	+	+	—	—	—	—	—	+	+	—	—	+
—	+	+	—	+	+	—	—	+	—	+	—	—	—
+	+	+	+	+	+	—	—	—	—	—	—	—	—
+	+	+	+	+	+	—	+	+	+	+	+	+	+
+	+	+	+	+	+	+	+	+	—	+	+	+	+
+	+	+	+	+	+	—	+	+	+	+	+	+	+
+	+	+	+	+	+	—	—	+	+	+	+	—	—
+	+	+	+	+	+	—	—	—	—	+	+	+	+
+	+	+	+	+	+	—	+	+	+	+	+	+	+

APPENDIX A—

SAND

TANK "B"—RATE 10,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
Feb. 16....	.....	5.00	start	.....	.....	.....	.....	.....	.....	.....
17....	10.00	.....	163	215	15	.....	.....	.....	+	+
	12.00	.....	164	290	35	.....	.....	.....	0	+
	.....	4.00	165	670	106	.....	.....	.....	+	+
18....	9.30	.....	stop	392	52	.....	.....	86.7	.....	.....
	.....	5.00	start	.....	.....	.....	.....	.....	.....	.....
19....	10.00	.....	169	43	32	.....	.....	.....	+	+
	12.00	.....	170	112	40	.....	.....	.....	+	+
21....	9.30	.....	171	40	4	.....	.....	.....	0	0
	10.00	.....	stop	65	25	.....	.....	61.5	.....	.....
	.....	5.00	start	.....	.....	.....	.....	.....	.....	.....
22....	10.00	.....	174	35	2	.....	.....	.....	0	0
	12.00	.....	175	475	12	.....	.....	.....	+	+
	.....	3.30	176	4110	170	23 10	1 1	.....	+	+
23....	10.00	.....	177	290	12	.....	.....	.....	+	+
	12.00	.....	178	155	24	.....	.....	.....	+	+
	.....	4.00	179	110	31	1 0	2 0	.....	0	+
24....	10.00	.....	180	55	12	.....	.....	.....	+	+
	12.00	.....	181	72	52	.....	.....	.....	0	0
	.....	4.00	182	14	56	1 0	0 0	.....	+	+
25....	10.00	.....	183	42	52	.....	.....	.....	0	0
	10.30	.....	stop	535.8	42.3	8.3 3.3	1 1	92.1		
	.....	4.30	start	.....	.....	88% 90%	.....	.....	.....	.....
26....	9.30	.....	186	75	40	0 0	0 0	.....	0	0
	11.00	.....	187	120	40	.....	.....	.....	0	0
28....	10.00	.....	188	30	20	.....	.....	.....	0	+
	12.00	.....	189	30	18	.....	.....	.....	0	0
	.....	4.00	190	320	23	3 3	0 0	.....	—	—

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
+	−	+	+	+	+	0	+	—	+	+	+	+	+
+	+	+	+	+	+	0	+	+	+	+	+	+	+
+	+	+	+	+	+	0	+	+	+	+	+	+	+
+	+	+				0	+	+	+	+			
+	+	+				+	+	0	+	+			
0	+	—				0	0	+	+	+			
0	0	0				0	0	+	+	+			
+	+	+				0	—	+	0	+			
+	+	+				0	+	+	+	+			
+	+	+				0	+	+	+	+			
+	+	+				+	+	+	+	+			
+	+	+				—	+	+	+	+			
+	+	+				0	+	—	+	+			
0	—	—				0	+	—	+	+			
—	+	+				0	+	+	+	+			
+	+	+				0	+	+	0	+			
0	+	+				0	0	0	—	+			
0	0	+				0	+	0	—	0			
0	0	0				0	+	+	+	+			
0	0	0				0	+	+	+	+			
+	+	+				0	0	0	+	+			

APPENDIX A—

SAND

TANK "B"—RATE 10,000,000 GALLONS

EXPERIMENTAL STATION.

Date 1910	Hour. A.M.	Hour. P.M.	Serial No.	Gauge Read. 1	2	3	4	5	6	Max. Loss of Head.	Bacterial Counts. 18°-22°C. Inf.	Eff.	37.5°C. Inf.	Eff.	Bact. Eff'cy.
March 1....	10.00	.....	191	...	...	...	...	...	...	...	2,710	806	.....	.....	.....
	12.00	.....	192	...	...	...	...	...	...	...	1,250	518	.....	.....	.....
	.....	4.00	193	...	...	...	...	...	...	...	380	320	4 0	30 4	.....
2....	10.00	.....	194	...	...	...	...	...	...	...	1,350	430	.....	.....	.....
	12.00	.....	195	...	...	...	...	...	...	...	720	305	.....	.....	.....
	.....	4.00	196	...	...	...	...	...	...	...	340	150	0 0	0 0	.....
3....	10.00	.....	197	...	...	...	...	...	...	...	560	25	.....	.....	.....
	12.00	.....	198	...	...	...	...	...	...	...	390	39	.....	.....	.....
	.....	4.00	199	...	...	...	...	...	...	...	210	103	0 0	0 0	.....
4....	10.00	.....	200	...	...	...	...	...	...	...	4,100	610	.....	.....	.....
	12.00	.....	201	...	...	...	...	...	...	...	4,900	620	.....	.....	.....
	.....	4.00	202	...	...	...	...	...	...	...	5,200	760	14 0	4 2	.....
5....	10.00	.....	203	...	...	...	...	...	...	...	790	560	.....	.....	.....
	12.00	.....	stop	...	...	...	...	...	...	...	1,304	299	3.5 .5	5.6 1.	77.%
7....	.....	5.00	start	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
8....	10.00	.....	206	2.4	2.4	1.9	1.0	.5	.2	2.2	6,880	145	.....	.....	.....
	12.00	.....	207	2.3	2.3	1.9	1.0	.5	.2	2.1	120	100	.....	.....	.....
	.....	4.00	208	2.3	2.3	1.8	.9	.6	.2	2.1	1.010	399	28 0	4 0	.....
9....	10.00	.....	209	2.0	2.0	1.6	.9	.7	.2	1.8	3,980	598	.....	.....	.....
	12.00	.....	210	2.0	2.0	1.6	.9	.7	.2	1.8	2.120	595	.....	.....	.....
	.....	4.00	211	1.9	1.9	1.5	1.0	.7	.2	1.7	2,130	700	21 1	9 2	.....
10....	10.00	.....	212	1.8	1.8	1.6	1.1	.8	.2	1.6	2,010	495	.....	.....	.....
	12.00	.....	213	1.8	1.8	1.6	1.1	.8	.2	1.6	3,500	485	.....	.....	.....
	.....	4.00	214	1.8	1.8	1.6	1.2	.9	.2	1.6	1,190	366	25 0	4 0	.....
11....	10.00	.....	215	1.8	1.8	1.6	1.2	1.0	.2	1.6	780	257	.....	.....	.....
	12.00	.....	216	1.8	1.8	1.6	1.2	.9	.2	1.6	390	201	.....	.....	.....
	.....	4.00	217	1.8	1.8	1.6	1.2	.9	.2	1.6	1,070	224	4 0	4 0	.....
12....	10.00	.....	218	1.9	1.9	1.7	1.3	1.1	.2	1.7	300	143	.....	.....	.....
	12.00	.....	219	1.9	1.9	1.7	1.3	1.0	.2	1.7	390	87	.....	.....	.....
14....	10.00	.....	220	2.3	2.3	2.2	1.8	1.6	.2	2.1	500	88	.....	.....	.....
	12.00	.....	221	1.4	2.4	2.1	1.8	1.6	.2	2.2	150	28	.....	.....	.....
	.....	4.00	222	2.4	2.4	2.2	1.8	1.6	.2	2.2	156	15	24 2	4 1	.....
15....	10.00	.....	223	2.6	2.6	2.4	2.0	1.8	.2	2.4	760	98	.....	.....	.....
	12.00	.....	224	2.8	2.8	2.4	2.1	1.8	.2	2.6	1,070	250	.....	.....	.....
	.....	4.00	225	2.7	2.7	2.5	2.1	1.9	.2	2.5	1,430	298	18 1	9 6	.....
16....	10.00	.....	226	2.9	2.9	2.7	2.3	2.1	.2	2.7	210	96	.....	.....	.....
	12.00	.....	227	2.9	2.9	2.7	2.3	2.1	.2	2.7	250	75	.....	.....	.....
	.....	4.00	228	2.9	2.9	2.8	2.4	2.2	.2	2.7	262	75	10 1	11 2	.....
17....	10.00	.....	229	3.0	3.0	2.8	2.5	2.2	.2	2.8	90	34	.....	.....	.....
	12.00	.....	230	3.1	3.1	2.9	2.6	2.4	.2	2.9	360	56	.....	.....	.....
	.....	4.00	231	3.2	3.2	3.0	2.6	2.4	.2	3.0	3,200	36	38 3	1 1	.....
18....	10.00	.....	232	3.5	3.5	3.3	3.0	2.8	.2	3.3	920	118	.....	.....	.....
	10.30	.....	stop	...	...	...	...	...	...	...	1,305	224	.....	.....	82.8
19....	9.00	.....	start	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
	10.00	.....	235	1.9	1.9	1.6	1.0	.6	.2	1.7	850	104	.....	.....	.....
21....	10.00	.....	236	2.0	2.0	1.7	1.0	.8	.2	1.8	250	41	.....	.....	.....
	12.00	.....	237	2.0	2.0	1.6	1.0	.7	.2	1.8	960	29	.....	.....	.....
	.....	4.00	238	2.1	2.1	1.7	1.1	.8	.2	1.9	500	64	14 0	3 0	.....
22....	10.00	.....	239	2.1	2.1	1.9	1.4	1.1	.2	1.9	80	38	.....	.....	.....
	12.00	.....	240	2.1	2.1	1.9	1.5	1.1	.2	1.9	55	15	.....	.....	.....
	.....	4.00	241	2.2	2.2	2.0	1.6	1.2	.2	2.0	64	3	8 0	1 0	.....
23....	10.00	.....	242	2.5	2.5	2.3	1.9	1.6	.2	2.3	200	25	.....	.....	.....
	12.00	.....	243	2.5	2.5	2.3	1.9	1.7	.2	2.3	120	8	.....	.....	.....
	.....	4.00	244	2.5	2.5	2.3	1.9	1.6	.2	2.3	70	10	6 0	3 0	.....
29....	9.00	.....	stop	...	...	...	...	...	...	...	315.	33.7	.....	.....	89.

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.							Effluent.						
1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.
0	+	+	+	+	.....	.....	0	—	+	+	+	.....	.....
+	0	0	+	+	.....	.....	+	+	+	+	+	.....	.....
0	0	0	0	0	.....	.....	0	0	0	+	+	.....	.....
0	+	+	—	+	.....	.....	0	+	—	+	+	.....	.....
+	+	+	+	+	.....	.....	0	+	0	—	+	.....	.....
0	0	0	0	+	.....	.....	0	0	+	+	+	.....	.....
0	0	0	0	0	.....	.....	0	+	0	0	0	.....	.....
0	0	0	+	+	.....	.....	+	0	0	0	+	.....	.....
0	+	0	+	+	.....	.....	0	0	0	0	+	.....	.....
+	+	+	+	+	.....	.....	+	+	+	—	+	.....	.....
—	+	+	+	+	.....	.....	0	+	+	+	+	.....	.....
—	+	+	+	+	.....	.....	0	+	+	+	+	.....	.....
—	+	+	+	+	.....	.....	0	+	+	+	+	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
+	+	+	+	+	.....	.....	0	+	+	+	+	.....	.....
0	+	+	+	+	.....	.....	+	+	+	+	+	.....	.....
0	+	+	+	+	.....	.....	0	+	+	+	+	.....	.....
0	+	+	—	0	.....	.....	0	+	+	+	+	.....	.....
0	0	0	0	0	.....	.....	0	+	+	+	+	.....	.....
0	+	+	+	+	.....	.....	+	0	+	+	+	.....	.....
+	0	+	+	+	.....	.....	0	0	+	+	+	.....	.....
+	+	—	+	+	.....	.....	0	+	+	+	+	.....	.....
0	0	0	+	+	.....	.....	+	+	+	+	+	.....	.....
0	0	+	+	+	.....	.....	0	0	0	0	+	.....	.....
0	0	0	+	+	.....	.....	0	0	—	+	+	.....	.....
0	0	+	+	+	.....	.....	0	+	—	+	+	.....	.....
0	0	0	0	0	.....	.....	0	0	+	+	+	.....	.....
0	0	0	0	0	.....	.....	0	+	0	0	+	.....	.....
+	+	+	+	+	.....	.....	+	+	+	+	+	.....	.....
+	+	+	+	+	.....	.....	+	+	+	+	+	.....	.....
0	+	+	+	+	.....	.....	+	+	+	+	+	.....	.....
+	+	+	+	+	.....	.....	+	+	+	+	+	.....	.....
—	+	+	+	+	.....	.....	0	0	+	+	+	.....	.....
—	+	+	+	+	.....	.....	+	+	+	+	+	.....	.....
0	+	—	+	+	.....	.....	0	—	+	+	+	.....	.....
0	0	+	+	+	.....	.....	0	0	+	+	+	.....	.....
0	+	+	+	+	.....	.....	0	0	+	+	—	.....	.....
0	+	+	+	+	.....	.....	0	0	0	+	0	.....	.....
0	+	+	0	+	.....	.....	0	+	0	+	+	.....	.....
+	+	+	+	+	.....	.....	0	0	+	+	+	.....	.....
+	+	+	+	+	.....	.....	0	0	—	+	+	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
+	+	+	+	+	.....	.....	0	+	+	+	+	.....	.....
0	0	+	+	+	.....	.....	0	+	0	0	+	.....	.....
—	+	+	+	+	.....	.....	0	0	0	0	0	.....	.....
+	+	+	+	+	.....	.....	0	+	+	+	0	.....	.....
0	0	—	0	+	.....	.....	0	0	0	+	0	.....	.....
0	0	0	0	0	.....	.....	+	0	0	0	0	.....	.....
0	0	0	—	+	.....	.....	0	0	0	+	0	.....	.....
0	0	0	0	—	.....	.....	0	0	0	—	0	.....	.....
0	0	0	0	—	.....	.....	0	+	0	+	0	.....	.....
0	0	+	—	+	.....	.....	0	0	0	+	—	.....	.....

APPENDIX A—

SAND

TANK "B"—RATE 10,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
Apr. 4....	10.30	.....	start	.....	.....	.....	.....	.....	.....	.....
	12.00	.....	245	138	120	.....	.....	.....	0	0
	.....	4.00	246	142	47	.....	.....	.....	0	0
5....	10.00	.....	247	96	10	.....	.....	.....	0	0
	12.00	.....	248	188	17	.....	.....	.....	0	0
	.....	4.00	249	47	2	.....	.....	.....	0	0
6....	10.00	.....	250	30	10	.....	.....	.....	0	0
	12.00	.....	251	12	7	.....	.....	.....	0	0
	.....	4.00	252	15	6	.....	.....	.....	0	0
	.....	5.00	stop	82.5	27.4	.....	.....	66.8	.....	.....
May 6....	.....	4.00	262	117	57	12	8	.....	.....	.....
7....	10.00	.....	263	19	3	350	3	.....	.....	.....
	12.00	.....	264	25	5	18	3	.....	.....	.....
9....	10.00	.....	265	230	5	30	1	.....	.....	.....
	12.00	.....	266	87	9	22	2	.....	.....	.....
	.....	4.00	267	53	4	60	3	.....	.....	.....
10....	10.00	.....	268	86	4	15	7	.....	.....	.....
	12.00	1	269	80	8	8	10	.....	.....	.....
	.....	4.00	270	108	6	31	5	.....	.....	.....
11....	10.00	.....	271	17	3	14	4	.....	.....	.....
....	12.00	.....	272	149	5	144	6	.....	.....	.....
....	.....	4.00	273	38	7	480	6	.....	.....	.....
12....	10.00	.....	274	172	9	23	4	.....	.....	.....
	12.00	.....	275	158	5	16	320	.....	.....	.....
	.....	4.00	276	30	16	8	7	89.4	.....	.....
				91.2	9.7	28.0	4.9	82.5		
13....	.....	4.00	277	86	18	20	8	.....	.....	.....
14....	10.00	.....	278		3		3	.....	.....	.....
	12.00	.....	299	60	9	24	7	.....	.....	.....
16....	10.00	.....	280	106	4		2	.....	.....	.....
	12.00	.....	281	30	4	21	50	89.2	.....	.....
				70.5	7.6	21.7	14	35.5		
21....	12.00	.....	282	147	4	14	7	.....	.....	.....
25....	10.00	.....	283	12	5	7	5	94.4	.....	.....
				79.5	45	10.5	6	42.8		
27....	.....	4.00	284	80	8	20	3	.....	.....	.....
28....	10.00	.....	285	40	2	20	9	.....	.....	.....
	12.00	.....	286	48	4	20	4	.....	.....	.....
30....	10.00	.....	287	66	4	10	3	.....	.....	.....
30....	12.00	.....	288	45	5	19	3	.....	.....	.....
	.....	4.00	289	21	2	15	4	.....	.....	.....
31....	10.00	.....	290	65	8	10	3	.....	.....	.....
	12.00	.....	291	62	10	60	4	.....	.....	.....
	.....	4.00	292	55	6	9	5	.....	0	0
June 1....	10.00	.....	293	80	3	6	2	.....	.....	.....
	12.00	.....	294	58	3	4	6	.....	.....	.....
	.....	4.00	295	100	28	8	2	.....	0	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
0	0	0				0	0	0	0	+			
0	0	0				0	0	0	—	0			
0	0	0				0	0	0	0	0			
0	0	0				0	0	0	0	0			
0	0	0				0	0	0	0	0			
0	0	0				0	0	0	0	0			
+	+	0				0	0	0	+	0			
0	0	0				0	0	0	0	0			
					0								0
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					0								0
					0								0
					0								0
					0								0
					+								0
					0								0
					—								—
0		0			—								0
—		0			—								0

APPENDIX A—

SAND

TANK "B"—RATE 10,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
June 2....	10.00	.....	296	45	3	4	5	88.8	.....	.....
				58.9	6.6	15.75	4.0	74.6		
3....	.....	4.00	297	26	5	5	2	.....	0	0
4....	10.00	.....	298	40	4	15	7	.....	.....	.....
	12.00	.....	299	1,440	5	40	6	.....	0	—
6....	10.00	.....	300	340	3	35	0	.....	.....	.....
	12.00	.....	301	30	2	9	0	.....	.....	.....
	.....	4.00	302	45	6	30	3	.....	0	0
7....	10.00	.....	303	100	4	8	3	.....	.....	.....
	12.00	.....	304	140	0	9	3	.....	.....	.....
	.....	4.00	305	28	3	2	5	.....	0	0
8....	10.00	.....	306	150	0	4	1	98.7	.....	.....
				233.9	3.2	15.7	2.8	82.2		
10 ...	10.00	.....	307	170	3	14	0	.....	0	0
11....	10.00	.....	308	45	5	1	3	.....	.....	.....
	12.00	.....	309	100	2	6	3	.....	0	—
13....	10.00	.....	310	500	5	85	4	.....	.....	.....
	12.00	.....	311	95	30	8	6	.....	.....	.....
	.....	4.00	312	110	9	15	1	.....	0	0
14....	10.00	.....	313	90	10	8	3	.....	0	0
	12.00	.....	314	36	4	15	4	.....	0	0
	.....	4.00	315	50	0	2	2	.....	0	0
15....	10.00	.....	316	35	4	5	5	.....	0	0
	12.00	.....	317	33	5	1	1	.....	0	0
16....	10.00	.....	318	50	3	2	0	.....	+	+
	12.00	.....	319	66	10	0	1	.....	0	0
	.....	4.00	320	58	14	6	2	.....	0	+
17....	10.00	.....	321	84	53	5	4	.....	0	0
	12.00	.....	322	80	—	5	—	.....	0	—
	.....	4.00	323	130	15	5	1	.....	0	0
18....	10.00	.....	324	53	3	1	1	.....	0	0
	12.00	.....	325	75	4	3	0	.....	0	0
20....	10.00	.....	326	30	11	0	1	.....	0	0
	12.00	.....	327	315	16	128	12	.....	0	0
	.....	4.00	328	32	18	2	1	.....	0	0
21....	10.00	.....	329	123	10	6	3	89.6	0	0
				102.7	10.6	14.0	2.6	81.4		
23....	10.00	.....	330	75	7	3	1		0	0
	12.00	.....	331	45	12	12	0		0	0
	.....	4.00	332	30	21	18	7		0	0
24....	10.00	.....	333	34	147	17	4		0	0
	12.00	.....	334	110	84	8	5		0	+
	.....	4.00	335	51	64	8	9		0	0
25....	10.00	.....	336	20	86	7	4		0	0
	12.00	.....	337	26	65	5	2		0	0
27....	10.00	.....	338	37	56	3	0		0	0
	12.00	.....	339	23	16	1	2		0	—
	.....	4.00	340	40	53	3	3		0	0
28....	10.00	.....	341	52	15	6	2	Strips added to filters, and thrown up and contaminated by boats, etc.	0	0

Continued.

FILTER.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	—	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
—	.....	—	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	0	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
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—	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0

APPENDIX A—

SAND

TANK "B"—RATE 10,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
June 28....	12.00	.....	342	16	23	1	1	.....	0	+
	.....	4.00	343	14	14	10	0	*end of contamination	0	0
29....	10.00	.....	344	16	6	0	1		0	0
	12.00	.....	345	21	4	0	2		0	—
	.....	4.00	346	—	—	2	2		0	—
30....	10.00	.....	347	7	6	3	4		—	0
	12.00	.....	348	7	9	2	2	.....	+	—
	.....	4.00	349	15	3	3	2	.....	0	—
July 4....	12.00	.....	350	145	25	66	0	.....	+	+
	.....	4.00	351	32	16	1	1	.....	—	+
5....	10.00	.....	352	145	11	45	5	.....	—	+
	12.00	.....	353	400	30	90	4	.....	0	+
	.....	4.00	354	190	15	30	3	.....	0	+
6....	10.00	.....	355	430	18	23	2	91.5	0	+
				139.2	13.7	24.0	2.4	90.0		
July 6....	.....	4.00	356	18	13	9	2	.....	—	—
7....	10.00	.....	357	175	6	33	2	.....	0	+
	12.00	.....	358	110	8	3	0	.....	—	—
	.....	4.00	359	90	14	3	4	.....	0	+
8....	10.00	.....	360	42	20	6	3	.....	0	0
	12.00	.....	361	50	5	3	0	.....	0	—
	.....	4.00	362	44	21	21	4	.....	0	0
9....	10.00	.....	363	28	7	1	2	.....	0	0
	12.00	.....	364	325	12	165	0	.....	+	+
*11....	12.00	.....	365	115	46	4	6	.....	0	+
	.....	4.00	366	110	15	4	2	.....	0	—
12....	10.00	.....	367	80	—	9	1	.....	0	0
	12.00	.....	368	94	11	12	11	.....	—	—
	.....	4.00	369	31	23	6	3	.....	0	+
13....	10.00	.....	370	28	7	3	1	.....	—	—
	12.00	.....	371	21	9	8	1	.....	0	—
	.....	4.00	372	65	14	6	2	.....	0	0
14....	10.00	.....	373	60	5	15	3	.....	0	0
	12.00	.....	374	60	13	10	1	.....	0	+
	.....	4.00	375	68	6	20	3	.....	0	0
15....	10.00	.....	376	230	17	10	2	.....	0	+
	12.00	.....	377	96	11	3	0	.....	0	0
	.....	4.00	378	17	7	6	2	.....	—	—
16....	10.00	.....	379	140	3	35	1	.....	+	+
	12.00	.....	380	280	2	5	6	87.0	+	+
				95.0	12.3	17.8	2.5	85.8		
July 18....	.....	4.00	381	36	14	1	3	.....	0	+
19....	10.00	.....	382	67	9	6	3	.....	0	+
	12.00	.....	383	—	—	13	3	.....	0	0
	.....	4.00	384	100	4	12	1	.....	0	0
20....	10.00	.....	385	170	9	3	2	.....	+	—
	12.00	.....	386	126	4	80	3	.....	+	+
	.....	4.00	387	84	7	19	1	.....	0	+
21....	10.00	.....	388	115	5	45	4	.....	—	+
	12.00	.....	389	120	3	21	7	.....	—	0
	.....	4.00	390	120	5	64	1	.....	0	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
+	.....	+	.....	.....	0	.....	.....	.....	.....	.....	0	.....	.....
0	.....	0	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	0	.....	.....
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	0	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
0	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
0	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
0	.....	+	.....	.....	0	.....	.....	.....	.....	.....	0	.....	.....
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
—	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	0
—	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	—	.....	.....	+	0	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	+	.....	0	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	—
0	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	0
+	.....	—	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	0
+	.....	—	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
+	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	—	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	0
—	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	—	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0

APPENDIX A—

SAND

TANK "B"—Rate 10,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
July 22....	10.00	.....	391	100	4	9	4	.....	0	0
	12.00	.....	392	125	1	11	1	.....	0	0
	.....	4.00	393	70	6	10	0	.....	+	+
23....	10.00	.....	394	70	1	3	3	.....	0	0
	12.00	.....	395	70	2	2	2	94.6	+	+
				98	5.3	19.9	2.5	87.4		
July 26....	.....	4.00	396	62	50	10	2	.....	0	+
27....	10.00	.....	397	95	2	12	6	.....	.....	.....
	12.00	.....	398	18	2	4	3	.....	.....	.....
	.....	4.00	399	145	8	—	7	.....	0	0
28....	10.00	.....	400	10	3	6	5	.....	0	+
	12.00	4.00	401	145	2	11	2	.....	.....	.....
	.....	4.00	402	175	5	91	3	.....	+	+
29....	10.00	.....	403	65	6	7	1	.....	0	0
	12.00	.....	404	39	6	4	4	.....	0	0
30....	10.00	.....	405	350	14	3	3	.....	0	0
Aug. 2....	10.00	.....	406	10	5	7	2	.....	.....	.....
	12.00	.....	407	6	3	9	2	90.5	.....	.....
				93.4	8.8	14.9	3.3	77.9		
4....	10.00	.....	408	7	7	2	3	.....	.....	0
	12.00	.....	409	39	0	27	1	.....	.....	0
5....	10.00	.....	410	181	4	4	0	.....	0	0
	12.00	.....	411	91	2	0	0	.....	.....	0
6....	10.00	.....	412	24	0	1	0	.....	.....	.....
	12.00	.....	413	40	1	—	0	.....	.....	.....
8....	10.00	.....	414	80	3	0	1	.....	.....	.....
	12.00	.....	415	102	0	—	0	.....	.....	.....
9....	10.00	.....	416	43	2	1	—	.....	.....	.....
	12.00	.....	417	99	0	1	0	.....	.....	.....
10....	10.00	.....	418	13	0	1	1	.....	0	0
	12.00	.....	419	23	0	0	0	.....	0	0
11....	10.00	.....	420	58	1	47	1	.....	0	0
	12.00	.....	421	58	2	17	0	.....	0	—
12....	10.00	.....	422	49	5	65	4	.....	—	0
	12.00	.....	423	52	2	20	2	.....	0	0
13....	10.00	.....	424	121	1	4	1	.....	0	0
	12.00	.....	425	93	0	1	0	.....	0	0
15....	10.00	.....	426	13	1	2	1	97.1	0	0
				57.1	1.6	11.4	.8	93.0		
16....	12.00	.....	427	17	1	0	0	.....	0	0
17....	12.00	.....	428	137	1	2	3	.....	0	0
18....	10.00	.....	429	127	3	10	5	.....	0	—
	12.00	.....	430	93	1	2	0	98.5	0	—
				93.5	1.5	3.5	2	42.8		

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 c.c.	15 c.c.	20 c.c.	30 c.c.	40 c.c.	50 c.c.	1 c.c.	5 c.c.	10 c.c.	15 c.c.	20 c.c.	30 c.c.	40 c.c.	50 c.c.
0	.....	.....	0	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	—	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
—	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	+
0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
—	.....	.....	—	.....	+	.....	.....	.....	.....	.....	.....	.....	.....
+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	+
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	.....	—	.....	+	.....	.....	.....	.....	.....	.....	.....	—
—	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0	.....	.....
.....	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0	.....	.....
—	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0	.....	.....
0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0	.....	.....
—	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0	.....	.....
0	.....	0	0	.....	.....	.....	.....	0	.....	.....	0	.....	.....
0	.....	0	0	.....	.....	.....	.....	0	.....	.....	0	.....	.....
0	.....	0	0	.....	.....	.....	.....	0	.....	.....	0	.....	.....
0	.....	0	+	.....	.....	.....	.....	0	.....	.....	0	.....	.....
0	.....	0	0	.....	.....	.....	.....	0	.....	.....	0	.....	.....
0	.....	0	0	.....	.....	.....	.....	0	.....	.....	0	.....	.....
0	.....	.....	0	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	.....	+	.....	0	.....	.....	.....	.....	.....	0	.....	0
0	.....	.....	—	.....	+	.....	.....	.....	.....	.....	0	.....	+
+	.....	.....	—	.....	+	.....	.....	.....	.....	.....	0	.....	+
0	.....	.....	0	.....	+	.....	.....	.....	.....	.....	0	.....	+
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	0	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	0	.....	0
0	.....	.....	0	.....	+	.....	.....	.....	.....	.....	0	.....	0
0	.....	.....	+	.....	+	0	0	0	.....	.....	0	.....	0
+	.....	.....	0	.....	.....	0	0	0	.....	.....	0	.....	.....
0	.....	.....	0	.....	—	0	0	0	.....	.....	0	.....	0
0	.....	.....	0	.....	+	.....	.....	0	.....	.....	0	.....	0
0	.....	.....	0	.....	+	.....	.....	0	.....	.....	0	.....	0

APPENDIX A—

SAND

TANK "B"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date. 1910	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
Aug. 30....	10.00	.....	431	233	78	12	64	.....	0	—
	12.00	.....	432	900	50	90	29	.....	—	—
31....	10.00	.....	433	140	20	8	9	.....	0	0
	12.00	.....	434	130	19	31	20	.....	+	+
	.....	4.00	435	60	19	4	36	.....	0	—
Sept. 1....	10.00	.....	436	280	11	34	10	.....	—	+
	12.00	.....	437	140	10	21	15	.....	+	+
2....	10.00	.....	438	1,440	68	7	14	.....	0	+
	12.00	.....	439	185	130	24	13	.....	+	+
	.....	4.00	440	164	52	36	27	.....	+	+
3....	10.00	.....	441	24	23	4	3	.....	0	+
	12.00	.....	442	18	23	6	4	.....	+	+
6....	10.00	.....	443	290	—	63	5	.....	.....	+
	12.00	.....	444	18	9	2	4	.....	.....	0
	.....	4.00	445	36	15	3	—	.....	—	+
7....	10.00	.....	stop'd	270.5	37.6	25	18.0			
8....	10.00	.....	446	108	9	24	6	.....	+	+
	12.00	.....	447	62	150	11	—	.....	0	+
	.....	4.00	448	—	34	4	22	.....	0	+
9....	10.00	.....	449	310	13	47	26	.....	—	+
	12.00	.....	450	224	25	32	10	.....	+	+
	.....	4.00	451	116	20	45	20	.....	+	+
10....	10.00	.....	452	265	13	17	12	.....	+	+
	12.00	.....	453	77	14	25	13	.....	+	+
12....	10.00	.....	454	520	14	10	9	.....	+	+
	12.00	.....	455	600	7	240	5	.....	.....	.....
13....	10.00	.....	456	588	7	7	9	.....	.....	.....
14....	10.00	.....	457	2,000	32	80	36	.....	+	+
14....	12.00	.....	458	1,200	145	54	130	.....	+	+
	.....	4.00	459	900	31	25	1	.....	+	+
15....	10.00	.....	460	12	5	1	10	.....	+	+
	12.00	.....	461	16	10	3	2	.....	+	+
	.....	4.00	462	28	9	12	8	.....	+	+
16....	10.00	.....	463	32	10	7	10	.....	0	+
	12.00	.....	464	9	4	—	—	.....	0	+
	.....	4.00	465	16	5	4	4	.....	—	+
17....	10.00	.....	466	12	1	—	1	.....	—	+
19....	10.00	.....	467	73	8	15	5	.....	—	+
	12.00	.....	468	23	8	11	4	.....	+	—
	.....	4.00	469	103	5	4	3	.....	+	+
20....	10.00	.....	470	35	5	3	2	.....	0*	0
	.....	.....	stop'd	301.2	23	29.6	15.1	.....	.....	.....
23....	12.00	.....	471	320	91	2	43	.....	0	0
25....	12.00	.....	472	43	2	—	5	.....	—	+
26....	12.00	.....	473	—	—	—	4	.....	0	—
27....	.....	4.00	474	—	—	3	3	.....	0	—
28....	.....	12.00	475	536	29	44	2	.....	—	+
29....	.....	5.00	476	590	4	—	3	.....	0	—
30....	.....	5.00	477	710	1	69	2	.....	0	0
Oct. 1....	12.00	.....	478	51	1	45	10	.....	0	0
3....	.....	10.00	stop'd	375	21.3	32.6	9			

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
—	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	—	+
0	.....	.....	—	.....	+	.....	.....	.....	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	—	.....	+
0	.....	.....	+	.....	—	.....	.....	.....	.....	.....	0	.....	—
+	.....	.....	+	.....	—	.....	+	+	.....	.....	—	.....	+
+	.....	.....	+	.....	+	.....	—	+	.....	.....	+	.....	—
+	.....	.....	+	.....	+	.....	+	—	.....	.....	—	.....	—
+	.....	.....	+	.....	+	.....	0	—	.....	.....	+	.....	+
—	.....	.....	+	.....	+	.....	0	0	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	+	—	.....	.....	—	.....	+
.....	.....	.....	—	.....	+	.....	+	.....	.....	.....	—	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	0	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	—
+	.....	.....	+	.....	+	.....	—	.....	.....	.....	.....	.....	+
+	.....	.....	+	.....	+	0	0	+	.....	.....	—	.....	—
+	.....	.....	+	.....	+	—	+	—	.....	.....	+	.....	+
+	.....	.....	+	.....	+	+	+	+	.....	.....	+	.....	+
+	.....	.....	+	.....	.....	0	+	+	.....	.....	+	.....	+
+	.....	.....	+	.....	.....	.....	+	+	.....	.....	+	.....	.....
+	.....	+	.....	.....	.....	—	+	.....	+	.....	.....	.....	.....
.....	.....	.....	+	.....	+	.....	0	.....	.....	.....	—	.....	.....
.....	.....	.....	.....	.....	+	.....	+	.....	.....	.....	.....	.....	+
.....	+	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	.....	.....
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.....	+	.....	+	.....	+	.....	—	0	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	+	—	.....	.....	—	.....	.....
+	.....	.....	+	.....	+	.....	—	—	.....	.....	—	.....	.....
+	.....	.....	+	.....	+	.....	0	0	.....	.....	0	.....	.....
+	.....	.....	+	.....	+	.....	+	+	.....	.....	0	.....	.....
+	.....	.....	+	.....	+	.....	0	—	.....	.....	0	.....	.....
+	.....	.....	+	.....	+	.....	0	0	.....	.....	0	.....	.....
+	.....	.....	+	.....	+	.....	0	0	.....	.....	0	.....	.....
+	.....	.....	+	.....	+	.....	0	0	.....	.....	0	.....	.....
—	.....	.....	+	.....	.....	.....	0	0	.....	.....	0	.....	.....
+	.....	.....	+	.....	.....	.....	0	0	.....	.....	+	.....	.....
.....	+	.....	+	.....	.....	.....	0	0	.....	.....	0	.....	.....
.....	+	.....	+	.....	+	.....	0	.....	0	.....	—	.....	0
.....	0	.....	0	.....	0	.....	*0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	0	.....	+	.....	+	.....	+
.....	+	.....	+	.....	+	.....	0	.....	+	.....	0	.....	0
.....	—	.....	+	.....	—	.....	0	.....	0	.....	—	.....	+
.....	+	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	.....
.....	+	.....	+	.....	+	.....	0	.....	0	.....	+	.....	0
.....	+	.....	+	.....	+	.....	+	.....	0	.....	+	.....	+
.....	0	.....	+	.....	+	.....	0	.....	0	.....	+	.....	0
.....	—	.....	—	.....	+	.....	.....	.....	—	.....	—	.....	0

APPENDIX A—

SAND

TANK "B"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
3....	.....	5.00	479	247	16	5	19	.....	0	0
4....	.....	4.00	480	30	2	55	3	.....	.....	0
5....	12.00	.....	481	21	3	35	4	.....	.....	0
6....	12.00	.....	482	34	1	6	4	.....	.....	+
Oct. 7....	12.00	.....	483	141	4	13	2	.....	.....	+
8....	12.00	.....	484	145	5	1	1	.....	.....	0
10....	12.00	.....	485	153	6	2	9	.....	.....	0
11....	.....	4.00	486	200	4	2	4	.....	.....	.....
12....	12.00	.....	487	71	6	0	3	.....	0	0
13....	12.00	.....	488	28	7	3	2	.....	0	0
14....	12.00	.....	489	156	6	2	2	.....	0	0
15....	12.00	.....	490	71	4	6	2	.....	0	0
17....	.....	5.00	491	388	3	3	1	.....	0	+
18....	.....	5.00	492	180	4	9	2	.....	0	+
19....	.....	5.00	493	800	14	900	5	.....	0	0
20....	10.00	.....	494	640	3	50	2	.....	0	+
21....	.....	4.00	495	1,200	—	359	0	.....	—	—
22....	10.00	.....	stop'd	265.0	5.1	85.3	3.8			

RATE 10,000,000 GALLONS

Oct. 24....	.....	4.00	496	240	16	6	2	.....	0	+
25....	10.00	.....	497	130	2	3	1	.....	0	—
26....	10.00	.....	498	196	2	5	1	.....	0	—
27....	12.00	.....	499	—	—	8	5	.....	0	0
28....	.....	5.00	500	37	48	9	33	.....	0	0
29....	12.00	.....	501	59	80	7	3	.....	0	0
Nov. 1....	10.00	.....	502	75	25	4	2	.....	0	0
4....	.....	3.00	503	150	70	7	4	.....	0	0
5....	10.30	.....	504	52	55	6	11	.....	0	0
				117.4	37.2	6.1	6.6			
8....	11.30	.....	505	2	2,000	0	0	.....	0	0
9....	10.00	.....	506	1	2,000	3	4	.....	0	0
10....	10.00	.....	507	186	1,000	9	3	.....	0	0
			stop	63	1666.6	4.0	3.5			

RATE 3,000,000 GALLONS

Nov. 12....	12.00	.....	508	12	2,000	3	6	.....	0	0
14....	10.00	.....	509	2	600	5	1	.....	0	0
15....	11.00	.....	510	0	300	2	3	.....	0	0
16....	12.00	.....	511	0	300	1	1	.....	0	0
17....	.....	5.00	512	0	155	0	1	.....	0	0
18....	11.30	.....	513	3	500	1	1	.....	0	0
19....	10.30	.....	514	0	800	1	1	.....	0	0
21....	.....	5.00	515	5	384	1	3	.....	0	0
22....	10.00	.....	516	8	119	8	4	.....	0	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	—
.....	0	.....	—	.....	+	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	+	.....	.....	.....	0	.....	0	.....	+
.....	0	.....	+	.....	+	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	+	.....	+	.....	.....	.....	0	.....	—	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	.....	.....	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	—
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
.....	—	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
.....	.....	.....	.....	.....	+	.....	.....	media	strip	.....	.....	.....	.....
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
.....	0	.....	0	.....	—	.....	.....	.....	.....	.....	.....	.....	0
.....	+	.....	+	.....	+	.....	.....	0	.....	.....	0	.....	0

PER ACRE PER DAY.

.....	+	.....	+	.....	+	0	0	.....	0	.....	0	.....	0
.....	—	.....	+	.....	+	0	0	.....	0	.....	—	.....	+
.....	0	.....	—	.....	0	0	0	.....	0	.....	0	.....	0
.....	—	.....	0	.....	+	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	0	0	.....	—	.....	0	.....	—
.....	—	.....	—	.....	+	0	—	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	0
.....	0	.....	—	.....	+	0	0	.....	0	.....	0	.....	+
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	+
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	—	0	0	.....	—	.....	0	.....	0
.....	0	.....	0	.....	+	0	—	.....	0	.....	+	.....	—

PER ACRE PER DAY.

.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	—	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	0	.....	0

APPENDIX A—

SAND

TANK "B"—RATE 3,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
Nov. 23....	.....	4.00	517	6	59	29	26	.....	0	0
24....	.....	5.00	518	1	246	1	0	.....	0	0
25....	10.30	.....	519	9	129	0	0	.....	0	0
26....	.....	1.00	520	5	195	4	6	.....	0	0
28....	10.00	.....	521	—	—	1	1	.....	0	0
29....	10.00	.....	522	—	—	11	3	.....	0	0
Dec. 1....	.....	5.00	523	2	5	2	1	.....	0	0
	.....	.....	stop	3.7	413.7	4.3	3.6			
3....	12.30	.....	524	16	86	10	43	.....	0	0
5....	.....	4.00	525	22	181	6	3	.....	0	0
6....	10.00	.....	526	7	32	2	1	.....	0	0
7....	.....	4.00	527	56	15	4	1	.....	0	0
8....	.....	3.30	528	11	5	3	1	.....	0	0
9....	.....	4.30	529	15	73	4	0	.....	.....	.....
10....	11.30	.....	530	100	11	—	—	.....	.....	.....
14....	.....	3.00	531	32	42	2	1	.....	0	0
15....	.....	5.30	532	22	41	5	3	.....	0	0
16....	.....	5.00	533	13	6	1	1	.....	0	0
19....	.....	4.00	534	45	25	2	1	.....	0	+
22....	.....	4.00	535	53	4	0	1	.....	0	0
27....	.....	4.00	536	50	15	—	0	.....	0	0
30....	.....	4.00	537	458	22	6	5	.....	0	0
Jan. 3 1911	.....	5.00	538	0	6	2	1	.....	+	0
				60.0	37.6	3.6	4.4			

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	—	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	—
.....	—	.....	—	.....	+	.....	.....	.....	0	.....	—	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	+	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	+	.....	0	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	0	.....	—	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	+	.....	0	.....	.....	.....	0	.....	—	.....	0
.....	0	.....	+	.....	0	.....	.....	.....	0	.....	0	.....	+
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	—	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	.....	.....	0	.....	+	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	—

APPENDIX A—

SAND

TANK "C"—RATE 10,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Gauge Read. 6	Max. Loss of Head.	Bacterial Counts. 18°–22°C. Inf.	Bacterial Counts. 18°–22°C. Eff.	Eff'cy. Bact.	Influent. 1 C.C.	Influent. 5 C.C.
1909										
Sept. 15....	10.20	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	10.30	.....	1	.....	.....	90	40	.....	.....	.....
	12.00	.....	2	.....	.....	120	60	.....	.....	.....
	.....	4.00	3	.....	.....	310	36	.....	.....	.....
16....	9.30	.....	4	1.35	1.35	230	23	.....	.....	.....
	12.00	.....	5	.....	.....	170	56	.....	.....	.....
	.....	4.00	6	.....	.....	70	32	.....	.....	.....
17....	9.30	.....	7	.....	.....	520	64	.....	.....	.....
	12.00	.....	8	.....	.....	180	31	.....	.....	.....
	.....	3.45	9	1.9	1.9	70	34	.....	.....	.....
18....	9.30	.....	10	.....	.....	330	16	.....	.....	.....
	12.00	.....	11	2.2	2.2	—	—	.....	.....	.....
20....	11.00	.....	stop	3.3	3.3	209	39.2	.....	.....	81.2
		4.00	start	0.0	0.0	.....	.....	.....	.....	.....
20....	.....	4.15	13	.....	.....	150	48	.....	.....	.....
21....	9.30	.....	14	.....	.....	160	7	.....	.....	.....
	12.00	.....	15	.....	.....	80	3	.....	.....	.....
	4.00	.....	16	2.1	2.1	148	6	.....	.....	.....
22....	9.30	.....	17	2.15	2.15	560	81	.....	.....	.....
	12.00	.....	18	.....	.....	250	4	.....	.....	.....
	.....	2.10	stop	3.3	3.3	224.6	24.8	.....	.....	88.9
22....	.....	5.30	start	0.0	0.0	.....	.....	.....	.....	.....
23....	9.30	.....	20	.....	.....	350	30	.....	.....	.....
	12.00	.....	21	.....	.....	160	10	.....	.....	.....
	.....	4.15	22	.....	.....	400	2	.....	.....	.....
24....	9.45	.....	23	2.0	2.0	540	10	.....	.....	.....
	12.00	.....	24	.....	.....	250	10	.....	.....	.....
	.....	4.00	25	.....	.....	430	—	.....	.....	.....
25....	9.30	.....	26	2.2	2.2	390	9	.....	.....	.....
25....	12.00	.....	27	.....	.....	24,000	1	.....	.....	.....
	.....	4.00	28	.....	.....	299	4	.....	.....	.....
27....	8.30	.....	stop	3.3	3.3	2,979.8	8.4	.....	.....	99.8
	.....	12.30	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	4.00	31	.....	.....	490	1	.....	.....	.....
28....	9.30	.....	32	2.1	2.1	1,180	2	.....	.....	.....
	12.00	.....	33	.....	.....	920	3	.....	.....	.....
	.....	4.00	34	.....	.....	730	6	.....	.....	.....
29....	9.30	.....	35	2.1	2.1	1,200	3	.....	.....	.....
	.....	4.00	36	.....	.....	110	1	.....	.....	.....
30....	9.30	.....	37	3.0	3.0	310	3	.....	.....	.....
	12.00	.....	38	.....	.....	1,300	8	.....	.....	.....
	.....	4.00	43	.....	.....	214	7	.....	.....	.....
	.....	5.00	stop	3.3	3.3	717.1	3.7	.....	.....	99.4
Oct. 1....	11.05	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	11.15	.....	45	.....	.....	120	80	.....	.....	.....
	11.30	.....	46	.....	.....	76	38	.....	.....	.....
	11.45	.....	47	.....	.....	380	16	.....	.....	.....
	12.00	.....	48	.....	.....	257	13	.....	.....	.....
	.....	4.00	49	1.8	1.8	170	5	.....	.....	.....
2....	9.30	.....	50	.....	.....	73	0	.....	.....	.....
	12.00	.....	51	1.6	1.6	76	4	.....	.....	.....

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C

APPENDIX A—

SAND

TANK "C"—RATE 10,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Gauge read. 6	Max. loss of head.	Bacterial counts. 18°-22°C Inf.	Bacterial counts. 18°-22°C Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1909										
Oct. 4....	12.00	.....	52	.....	.....	140	12	.....	.....	.....
.....	.....	4.00	53	2.0	2.0	157	6	.....	.....	.....
5....	9.30	.....	54	2.5	2.5	200	2	.....	.....	.....
	12.00	.....	55	2.5	2.5	112	2	.....	.....	.....
.....	.....	4.00	56	2.65	2.65	173	2	.....	.....	.....
6....	9.30	.....	57	3.3	3.3	440	2	.....	.....	.....
	9.45	.....	stop	.....	.....	182.6	14	92.4		
.....	.....	3.30	start	0.0	0.0	.....	.....	.....	.....	.....
.....	.....	4.00	59	1.55	1.55	260	10	.....	+	+
7....	9.30	.....	60	1.5	1.5	270	2	.....	+	+
	12.00	.....	61	1.5	1.5	220	5	.....	+	+
.....	.....	4.00	62	1.4	1.4	220	2	.....	—	+
8....	9.30	.....	63	1.3	1.3	940	12	.....	.....	.....
	12.00	.....	64	1.3	1.3	290	15	.....	.....	.....
.....	.....	4.00	65	1.3	1.3	940	20	.....	+	+
9....	9.30	.....	66	1.3	1.3	200	3	.....	.....	.....
	12.00	.....	67	1.3	1.3	400	3	.....	+	+
11....	9.30	.....	68	1.75	1.75	560	1	.....	—	—
	12.00	.....	69	1.8	1.8	150	10	.....	—	+
.....	.....	4.00	70	1.8	1.8	89	0	.....	—	+
12....	9.30	.....	71	2.05	2.05	144	0	.....	—	+
	12.00	.....	72	2.1	2.1	151	0	.....	—	+
.....	.....	4.00	73	2.25	2.25	157	0	.....	+	+
13....	9.30	.....	74	2.7	2.7	151	0	.....	—	+
	12.00	.....	75	2.8	2.8	134	3	.....	+	+
.....	.....	4.00	76	2.9	2.9	51	10	.....	+	+
14....	9.30	.....	77	4.25	4.25	200	1	.....	—	+
	9.30	.....	stop	.....	.....	290.8	5.1	97.9		
15....	.....	12.15	start	0.0	0.0	.....	.....	.....	.....	.....
.....	.....	4.00	82	1.6	1.6	240	5	.....	.....	.....
16....	9.30	.....	83	1.5	1.5	70	7	.....	.....	.....
	12.00	.....	84	1.5	1.5	202	800	.....	.....	.....
18....	12.00	.....	85	1.5	1.5	220	1	.....	.....	.....
.....	.....	3.30	86	1.6	1.6	129	3	.....	.....	.....
19....	9.30	.....	87	2.0	2.0	160	2	.....	.....	.....
	12.00	.....	88	.....	.....	330	4	.....	.....	.....
19....	.....	4.00	89	2.1	2.1	460	1	.....	.....	.....
20....	9.30	.....	90	2.6	2.6	170	0	.....	.....	.....
	12.00	.....	91	2.75	2.75	1,200	2	.....	.....	.....
.....	.....	3.30	stop	3.3	3.3	318.1	82.5	74.0		
21....	11.15	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	12.00	.....	94	1.9	1.9	920	60	.....	.....	.....
.....	.....	4.00	95	1.8	1.8	1,440	23	.....	.....	.....
22....	9.00	.....	stop	3.3	3.3	1,180	41.5	96.5		
26....	.....	3.30	start	0.0	0.0	.....	2	.....	.....	.....
.....	.....	4.00	96	2.1	2.1	160	18	.....	—	+
27....	9.30	.....	97	1.5	1.5	91	2	.....	—	+
	12.00	.....	98	1.35	1.35	60	4	.....	—	+
.....	.....	4.00	99	1.3	1.3	40	6	.....	+	—
28....	12.00	.....	100	1.1	1.1	35	4	.....	—	+
.....	.....	3.00	101	1.1	1.1	60	1	.....	—	—
29....	.....	3.00	102	1.2	1.2	60	5	.....	—	+

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
+	+	+	+	+	+	—	—	—	+	+	+	+	+
+	+	+	+	+	+	—	—	—	+	+	+	+	+
+	+	+	+	+	+	—	—	—	+	+	+	+	+
+	+	+	+	+	+	—	—	+	+	+	+	+	+
						—	—	—	+	+	+	+	+
+	+	+	+	+	+	—	—	—	—	—	+	+	+
+	—	+	+	+	+	+	—	+	—	+	+	+	+
+	+	+	+	+	+	—	—	—	—	—	—	+	+
+	+	+	+	+	+	—	—	—	+	—	—	—	—
+	+	+	+	+	+	—	—	—	—	—	—	—	+
+	+	+	+	+	+	—	+	+	—	—	+	+	+
+	+	+	+	+	+	—	—	—	—	+	+	+	+
+	+	+	+	+	+	—	—	—	—	—	—	+	+
+	+	+	+	+	+	—	—	—	—	+	—	+	+
+	+	+	+	+	+	—	—	—	—	+	+	+	+
+	+	+	+	+	+	—	—	—	—	+	+	+	—
+	—	+	+	+	+	—	—	—	—	—	+	+	+
—	+	+	+	+	+	—	—	+	-	+	—	—	+
+	+	+	+	+	—	—	+	+	+	+	+	+	+
+	+	+	+	+	—	—	+	—	+	—	+	+	+
+	+	+	+	—	—	—	-	+	+	—	+	+	+
+	+	+	+	+	—	—	—	+	+	—	+	+	+
+	+	+	+	—	—	—	—	+	—	—	+	+	+
+	+	+	+	—	+	—	—	+	—	+	+	—	+

APPENDIX A—
SAND

TANK "C"—RATE 10,000,000 GALLONS

EXPERIMENTAL STATION.

Date. 1909	Hour. A.M.	Hour. P.M.	Serial No.	Gauge Read.	Max. Loss of Head.	Bacterial Counts. 18°-22°C Inf.	Bacterial Counts. 18°-22°C Eff.	Eff'cy. Bact.	Influent. 1 C. C.	Influent. 5 C. C.
Oct. 30....	9.30	.....	103	1.4	1.4	55	2	.....	+	+
	12.00	.....	104	1.5	1.5	80	4	.....	.....	.....
Nov. 1	9.30	.....	105	2.5	2.5	130	0	.....	.....	.....
	12.00	.....	106	3.0	3.0	60	9	.....	.....	.....
	.....	3.00	107	3.0	3.0	30	—	.....	.....	.....
	.....	5.00	stop	3.3	3.3	71.7	5.4	92.4		
5....	9.30	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	9.30	.....	109	1.5	1.5	70	9	.....	.....	.....
	12.00	.....	110	1.4	1.4	60	2	.....	.....	.....
	.....	3.00	111	1.4	1.4	35	8	.....	.....	.....
6....	9.30	.....	112	1.15	1.15	40	1	.....	.....	.....
	12.00	.....	113	1.1	1.1	110	3	.....	.....	.....
8....	12.00	.....	114	1.0	1.0	55	0	.....	.....	.....
	.....	4.00	115	1.1	1.1	85	1	.....	.....	.....
9....	10.00	.....	116	1.4	1.4	100	9	.....	.....	.....
	12.00	.....	117	1.5	1.5	75	6	.....	.....	.....
	.....	4.00	118	1.2	1.7	65	5	.....	.....	.....
10....	9.30	.....	stop	3.3	3.3	69.5	4.4	93.7		
11....	12.00	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	3.30	124	1.7	1.7	35	1	.....	—	—
12....	9.30	.....	125	1.4	1.4	40	3	.....	+	—
	.....	3.00	126	1.5	1.5	125	27	.....	—	—
13....	9.30	.....	127	1.6	1.6	85	4	.....	—	—
	12.00	.....	128	1.7	1.7	90	14	.....	—	—
15....	9.30	.....	129	3.2	3.2	21	1	.....	—	—
	12.00	.....	130	3.3	3.3	75	42	.....	—	—
	12.00	.....	stop	.....	.....	67.2	13.1	80.6		
16....	.....	2.00	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	3.30	133	1.5	1.5	100	7	.....	—	—
17....	12.00	.....	134	1.5	1.5	430	—	.....	—	—
	.....	4.00	135	1.5	1.5	800	25	.....	+	+
18....	9.30	.....	136	1.8	1.8	250	7	.....	—	+
	12.00	.....	137	1.8	1.8	90	12	.....	—	+
	.....	4.00	138	1.9	1.9	125	6	.....	+	+
19....	9.30	.....	139	2.1	2.1	280	—	.....	.....	.....
	12.00	.....	140	2.2	2.2	165	6	.....	.....	.....
22....	.....	3.00	stop	3.3	3.3	280	8	97.2		
27....	10.00	.....	start	0.0	0.0	.....	.....	.....	.....	.....
29....	9.30	.....	147	.....	.....	620	30	.....	+	+
	12.00	.....	148	.....	.....	470	20	.....	—	+
	.....	4.00	149	.....	.....	300	52	.....	—	+
30....	9.30	.....	150	.....	.....	330	17	.....	—	+
Dec. 1....	9.30	.....	151	9.0	4.	.....	.....	.....	—	—
	9.30	.....	stop	36.2	24.6	.....	.....	93.2		
3....	9.30	.....	start	.....	.....	.....	.....	.....	.....	.....
3....	9.30	.....	155	450	109	.....	.....	.....	.....	.....
4....	9.30	.....	156	85	15	.....	.....	.....	.....	.....
6....	9.30	4.30	157	—	—	.....	.....	.....	.....	.....
	.....	4.30	158	—	—	.....	.....	.....	.....	.....
7....	9.30	.....	stop	267.5	62.0	.....	.....	76.8		

New Sand placed in filters

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
—	+	+	+	+	+	—	+	—	—	—	+	+	+
+	+	—	+	+	+	—	—	—	—	+	+	—	+
+	+	+	+	+	+	—	—	—	+	—	—	—	+
—	+	+	+	+	—	—	—	+	—	+	+	+	—
—	—	—	—	—	—	—	—	—	+	—	—	—	—
+	+	+	+	—	—	—	—	—	—	—	+	—	—
—	+	+	—	—	—	—	—	+	+	+	+	—	—
+	—	—	—	—	+	—	—	+	+	+	—	—	+
—	+	+	—	+	+	—	—	—	—	—	—	—	—
+	+	+	+	+	+	—	—	—	+	—	+	+	—
+	+	+	+	+	+	—	—	—	+	+	—	—	+
+	+	+	+	+	+	—	+	+	+	+	+	+	—
+	+	+	+	+	+	—	—	—	+	+	+	+	+
+	+	+	+	+	+	—	—	—	+	+	—	—	+
						—	—	+	—	—	—	+	—
+	+	+	+	+	+	—	—	+	—	—	—	+	—
+	+	+	+	+	+	—	+	—	+	—	—	+	+
+	+	+	+	+	+	—	+	—	—	+	+	+	+
—	+	+	—	+	—	—	—	+	+	—	—	—	—
—	+	+	—	—	—	—	—	—	—	+	—	+	—

20 cu. yds. received Jan. 28th, 1911.

APPENDIX A—
SAND

TANK "C"—RATE 15,000,000 GALLONS

EXPERIMENTAL STATION.

Date. 1910	Hour. A.M.	Hour. P.M.	Serial No.	Gauge read. 1	2	3	4	5	6	Max. loss of head.	Bacterial counts. 18°-22°C Inf.	18°-22°C Eff.	37.5°C Inf.	37.5°C Eff.	Bact. Eff'cy.
Feb. 15....	.....	3.20	start	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
16....	9.30	.....	stop	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
17....	12.30	.....	start	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
18....	9.30	.....	stop	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
.....	.....	5.00	start	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
19....	9.30	.....	stop	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
21....	.....	5.00	start	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
22....	9.00	.....	stop	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
23....	.....	3.30	start	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
.....	.....	4.00	179	...	...	...	...	...	...	...	110	38	0 0	0 0	.....
24....	9.30	.....	stop	...	...	...	...	...	...	...	110	38	.....	.....	65.5
Mar. 7....	.....	5.00	start	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
8....	10.30	.....	206	4.0	3.5	2.9	1.7	.8	.3	3.7	6,880	84	.....	.....	.....
	10.00	.....	stop	...	...	...	...	...	...	...	6,880	84	.....	.....	98.8
.....	.....	5.00	start	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
9....	10.00	.....	209	3.7	3.4	2.7	1.3	.7	.2	3.5	3,980	710	.....	.....	.....
	11.00	.....	stop	...	...	...	...	...	...	...	3,980	710	.....	.....	82.2
11....	9.30	.....	start	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
	10.00	.....	215	3.6	3.4	2.7	1.4	.6	.2	3.4	780	665	.....	.....	.....
	12.00	.....	216	3.6	3.6	2.7	1.6	.7	.2	3.4	390	367	.....	.....	.....
.....	.....	4.00	217	3.5	3.5	2.6	1.5	.7	.2	3.3	1,070	237	4 0	5 1	.....
12....	10.00	.....	218	3.2	3.2	2.2	1.2	.7	.2	3.0	300	117	.....	.....	.....
	12.00	.....	219	3.2	3.1	2.1	1.2	.7	.2	3.0	390	115	.....	.....	.....
14....	10.00	.....	220	2.7	2.7	2.3	1.8	1.2	.2	2.5	500	61	.....	.....	.....
	12.00	.....	221	2.8	2.8	2.3	1.8	1.2	.2	2.6	150	28	.....	.....	.....
.....	.....	4.00	222	2.9	2.9	2.4	1.9	1.4	.2	2.7	156	27	24 2	18 2	.....
15....	10.00	.....	223	3.1	3.1	2.6	2.2	1.7	.2	2.9	760	162	.....	.....	.....
	12.00	.....	224	3.1	3.1	2.7	2.2	1.7	.2	2.9	1,070	390	.....	.....	.....
.....	.....	4.00	225	3.3	3.3	2.9	2.4	1.8	.3	3.0	1,430	538	18 1	6 0	.....
16....	9.30	.....	stop	...	...	...	...	...	...	...	636	246	.....	.....	61.3
.....	.....	5.00	start	2.5	2.5	2.0	1.5	.8	.2	2.3	.....	.....	.....	.....	.....
17....	10.00	.....	229	2.5	2.5	2.0	1.5	.8	.2	2.3	90	44	.....	.....	.....
	12.00	.....	230	2.5	2.5	2.0	1.5	.8	.2	2.3	360	54	.....	.....	.....
.....	.....	4.00	231	2.5	2.5	2.0	1.5	.7	.2	2.3	3,200	170	38 3	2 0	.....
18....	10.00	.....	232	2.2	2.2	1.8	1.5	.9	.2	2.0	920	312	.....	.....	.....
	12.00	.....	233	2.2	2.2	1.8	1.5	.9	.2	2.0	279	218	.....	.....	.....
.....	.....	4.00	234	2.1	2.1	1.8	1.5	.9	.2	1.9	610	141	6 0	3 0	.....
19....	10.00	.....	235	2.2	2.2	1.8	1.8	1.0	.2	2.0	850	103	.....	.....	.....
21....	10.00	.....	236	3.4	3.4	3.0	2.4	1.9	.2	3.2	250	86	.....	.....	.....
	12.00	.....	237	3.4	3.4	3.0	2.4	2.0	.2	3.2	960	49	.....	.....	.....
.....	.....	4.00	stop	...	...	...	...	...	...	...	836	131	.....	.....	84.3
23....	.....	1.00	start	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
.....	.....	4.00	244	...	...	...	...	...	...	...	70	5	6 0	2 0	.....
29....	9.00	.....	stop	2.7	2.7	2.1	1.4	.4	.2	2.5	70	5	.....	.....	92.8
April 6....	11.00	.....	start	...	...	...	...	...	...	...	.....	.....	.....	.....	.....
	12.00	.....	251	...	...	...	...	...	...	...	12	21	.....	.....	.....
.....	4.00		252	...	...	...	...	...	...	...	15	10	.....	.....	.....
7....	10.00	.....	253	...	...	...	...	...	...	...	240	15	.....	.....	.....
	12.00	.....	254	...	...	...	...	...	...	...	80	46	.....	.....	.....
.....	.....	4.00	255	...	...	...	...	...	...	...	35	27	.....	.....	.....
8....	10.00	.....	256	...	...	...	...	...	...	...	87	31	.....	.....	.....
	12.00	.....	257	...	...	...	...	...	...	...	28	22	.....	.....	.....
.....	.....	4.00	258	...	...	...	...	...	...	...	38	21	.....	.....	.....
9....	10.00	.....	259	...	...	...	...	...	...	...	3	0	.....	.....	.....
	11.00	.....	stop	...	...	...	...	...	...	...	60	21.4	.....	.....	64.3

These results misleading since sand on filters had been removed

Continued.
FILTERS.
PER ACRE PER DAY.

Colon Bacilli.

Influent.							Effluent.						
1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.
0	+	—	—	+			+	+	+	+	+		
+	+	—	—	+			+	+	+	+	+		
0	+	—	—	0			0	+	+	+	+		
0	0	+	+	+			0	+	+	+	+		
0	0	0	+	+			0	0	0	+	+		
0	0	+	+	+			0	+	+	0	0		
0	0	0	0	0			0	+	0	—	—		
0	0	0	0	0			0	0	0	+	+		
+	+	+	+	+			—	+	—	+	+		
+	+	+	+	+			—	+	+	+	+		
0	+	+	+	+			+	+	+	+	+		
+	+	+	+	+			—	+	+	+	+		
—	+	+	+	+			+	+	+	+	+		
—	+	+	+	+			+	+	+	+	+		
0	+	+	+	+			0	+	—	+	+		
0	+	+	0	+			0	+	0	—	+		
+	+	+	+	+			0	+	+	+	+		
+	+	+	+	+			+	+	+	+	+		
0	+	0	+	+			0	0	+	+	+		
0	+	+	+	+			0	+	+	+	+		
+	+	+	+	+			0	+	+	+	+		
0	0	+	+	+			0	0	+	+	0		
+	+	+	+	+			0	0	0	0	+		
0	0	+	—	+			0	+	0	—	0		
0	0	+	+	0			0	0	0	0	0		
0	0	0	0	0			0	0	0	0	0		
—	+	+	+	+			0	0	0	0	0		
0	+	+	+	+			0	0	0	0	0		
0	0	0	0	0	0	—	0	0	0	0	0		0
0	0	0	0	0		0			0	0	0		0
0	0	0	0	0		0			0	0	0		0
0	0	0	0	0		0			0	0	0		0
0	+	+	+	+		+			0	0	0		0

and washed by dirty Toronto water, then replaced.

APPENDIX A—

SAND

TANK "C"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
May, 11....	12.00	.....	1	.....	9	22	14	.....	.....	.....
	.....	4.00	2	38	15	.....	53	.....	.....	.....
12....	10.00	.....	3	172	8	23	8	.....	.....	.....
	12.00	.....	4	158	5	16	11	.....	.....	.....
	.....	4.00	5	30	7	8	4	.....	.....	.....
13....	10.00	.....	6	100	20	18	3	.....	.....	.....
	12.00	.....	7	86	12	65	3	.....	.....	.....
	.....	4.00	8	86	14	20	13	.....	.....	.....
14....	10.00	.....	9	.....	3	.....	4	.....	.....	.....
	12.00	.....	10	.....	11	.....	7	.....	.....	.....
16....	10.00	.....	11	106	4	.....	6	.....	.....	.....
	12.00	.....	12	30	8	21	7	89.0	.....	.....
				89.5	9.7	24.	11.	54.2		
								92.		
21....	12.00	.....	13	147	12	14	9	35.7	.....	.....
30....	10.00	.....	13	66	5	10	3	.....	.....	.....
	12.00	.....	14	45	.....	19	2	.....	.....	.....
	.....	4.00	15	21	3	15	.....	.....	.....	.....
31....	10.00	.....	16	65	7	10	2	.....	.....	.....
	12.00	.....	17	62	13	60	11	.....	.....	.....
	.....	4.00	18	55	20	9	.....	.....	0	0
June 1....	10.00	.....	19	80	14	6	.....	.....	.....	.....
	12.00	.....	20	58	4	4	4	.....	.....	.....
	.....	4.00	21	100	.....	8	.....	.....	0	0
2....	10.00	.....	22	45	3	4	4	85.5	.....	.....
				59.7	8.6	15.5	4	74.2		
4....	12.00	———	23	1,440	2	40	2	.....	0	—
6....	10.00	.....	24	340	3	35	4	99.7	0	+
				890	2.5	37.5	3.	92.		

RATE—15,000,000 GALLONS

May 6....	.....	4.00	270	117	50	12	8	.....	.....	.....
7....	10.00	.....	271	19	1	.....	10	.....	.....	.....
	12.00	.....	272	25	0	18	6	.....	.....	.....
9....	10.00	.....	273	230	18	30	5	.....	.....	.....
	12.00	.....	274	87	16	22	6	.....	.....	.....
	.....	4.00	275	53	8	60	11	82.5	.....	.....
				88.5	15.5	28.4	7.7	73.	.....	.....
26....	12.00	.....	278	130	7	15	3	.....	.....	.....
	.....	4.00	279	35	13	5	7	.....	0	0
27....	10.00	.....	280	25	6	10	5	.....	.....	.....
	12.00	.....	281	47	10	6	4	.....	.....	.....

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
					0								0
					0								0
					0								0
					0								0
					0								0
													0
					—								0
0		0			—								0
—		0			—								0
0		+			+								0
0		—			+								

PER ACRE PER DAY.

					0								0
					0								0
					0								0
0		0			0								0

APPENDIX A—

SAND

TANK "C"—RATE 15,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
May 27....	.....	4.00	282	80	12	20	10	.....	.....	.....
28....	10.00	.....	283	40	2	20	9	86.	.....	.....
				59.5	8.3	12.6	6.3	50.		
June 7....	.....	4.00	284	28	3	2	6	.....	0	0
8....	10.00	.....	285	150	20	4	3	.....	.....	.....
	12.00	.....	286	180	0	10	1	.....	.....	.....
	.....	4.00	287	340	10	11	4	.....	0	0
9....	10.00	.....	288	180	0	5	0	.....	.....	.....
	12.00	.....	289	55	8	5	4	.....	.....	.....
	.....	4.00	290	45	10	8	3	.....	0	0
10....	10.00	.....	291	170	15	14	2	.....	0	0
11....	10.00	.....	292	45	3	1	3	.....	.....	.....
	12.00	.....	293	100	1	6	4	94.5	0	—
				129.3	7.0	6.6	3.0	54.5		
13....	.....	4.00	294	110	10	15	13		0	0
14....	10.00	.....	295	90	7	6	3	.....	0	0
	12.00	.....	296	36	4	7	1	.....	0	0
	.....	4.00	297	50	4	2	0	.....	0	0
15....	10.00	.....	298	35	7	5	2	.....	0	0
	12.00	.....	299	33	5	1	2	.....	0	0
16....	10.00	.....	300	50	3	2	2	.....	+	+
	12.00	.....	301	66	8	0	2		0	0
				58.7	6.0	4.	3.2	89.7		
	.....	4.00	302	58	6	6	3	.....	0	+
17....	10.00	.....	303	84	—	5	3	.....	0	0
	12.00	.....	304	80	—	5	—	.....	0	—
	.....	4.00	305	130	7	5	2	.....	0	0
18....	10.00	.....	306	53	7	1	1	.....	0	0
	12.00	.....	307	75	1	3	0	.....	0	0
20....	10.00	.....	308	30	3	0	0	90.7	0	0
				72.0	4.5	2.2	.75	93.7		
22....	10.00	.....	309	16	65	12	2	Results, negative infection present due to disturbance of adding strips to filters.	0	0
	12.00	.....	310	35	—	5	1		0	0
	.....	4.00	311	46	11	28	1		+	0
23....	10.00	.....	312	75	53	3	0		0	0
	12.00	.....	313	45	28	12	1		0	0
	.....	4.00	314	30	52	18	2		0	0
24....	10.00	.....	315	34	120	17	3		0	0
	12.00	.....	316	110	160	8	6		0	+
	.....	4.00	317	51	110	8	8		0	0
25....	10.00	.....	318	20	75	7	1		0	0
	12.00	.....	319	26	80	5	0		0	0
				44.3	75.	11.2	2.27	.....		
27....	.....	4.00	320	40	43	3	0	.....	0	0
28....	10.00	.....	321	52	10	6	0	.....	0	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
.....	.....	.....	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	0	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	0	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
—	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	—
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	0	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	+	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
+	.....	0	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	0	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	0
+	.....	0	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
0	.....	+	.....	.....	0	.....	.....	.....	.....	.....	0	.....	.....
0	.....	+	.....	.....	0	.....	.....	.....	.....	.....	0	.....	.....
0	.....	—	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	0	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....

APPENDIX A—

SAND

TANK "C"—RATE 15,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
June 28....	12.00	.....	322	16	13	1	1	.....	0	+
	.....	4.00	323	14	6	10	1	.....	0	0
29....	10.00	.....	324	16	8	0	1	.....	0	0
	12.00	.....	325	21	1	0	2	.....	0	—
	.....	4.00	326	—	—	2	0	.....	0	—
				26.5	13.5	3.1	.71	77.0		
July 4....	12.00	.....	327	145	42	66	7	.....	+	+
	.....	4.00	328	32	45	1	7	.....	—	+
5....	10.00	.....	329	145	16	45	2	.....	—	+
	12.00	.....	330	400	25	90	7	.....	0	+
	.....	4.00	331	190	22	30	4	.....	0	+
6....	10.00	.....	332	430	82	23	0	.....	0	+
								82.6		
				223.6	38.8	49.1	4.8	90.8		
6....	.....	4.00	333	18	20	9	1	.....	—	—
7....	10.00	.....	334	175	5	33	1	.....	0	—
	12.00	.....	335	110	0	3	0	.....	—	—
	.....	4.00	336	90	1	3	0	.....	0	+
8....	10.00	.....	337	42	7	6	0	.....	0	0
	12.00	.....	338	50	12	3	0	.....	0	—
	.....	4.00	339	44	8	21	3	.....	0	0
9....	10.00	.....	340	28	8	1	0	.....	0	0
	12.00	.....	341	325	3	.165	5	92.7	+	+
				98	7.1	27.1	1.1	96.0		
12....	12.00	.....	342	94	3	12	1	.....	—	—
	.....	4.00	343	31	1	6	3	.....	0	+
13....	10.00	.....	344	28	2	3	1	.....	—	—
	12.00	.....	345	21	4	8	1	.....	0	—
13....	.....	4.00	346	65	4	6	0	.....	0	0
14....	12.00	.....	347	60	4	10	0	18°	0	+
	.....	4.00	348	68	5	20	1	94.0	0	0
				52.4	3.2	9.2	1.0	89.2		
15....	12.00	.....	349	96	10	3	4	.....	0	0
	.....	4.00	350	17	8	6	1	.....	—	—
16....	10.00	.....	351	140	3	35	0	.....	+	+
	12.00	.....	352	280	2	51	0	95.5	+	+
				133.2	5.7	23.7	1.2	95.4		
18....	.....	4.00	353	36	10	1	4	.....	0	+
19....	10.00	.....	354	67	3	6	3	.....	0	+
	12.00	.....	355	—	—	13	1	.....	0	0
	.....	4.00	356	100	1	12	2	.....	0	0
20....	10.00	.....	357	170	2	3	0	.....	+	—
	12.00	.....	358	126	1	80	0	.....	+	+
	.....	4.00	359	84	1	19	1	.....	0	+
21....	10.00	.....	360	115	7	45	1	.....	—	+

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
+	.....	+	.....	.....	0	.....	.....	.....	.....	.....	0	.....	.....
0	.....	0	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	0	.....	.....
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	0	.....	.....	+	.....	.....	.....	.....	.....	0	.....	.....
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	+	.....	.....
—	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	—
—	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	0	.....	.....	.....	.....	.....	0
+	.....	.....	—	.....	+	.....	0	.....	0	.....	.....	.....	—
+	.....	.....	+	.....	+	.....	0	.....	.....	0	.....	.....	0
0	.....	.....	+	.....	+	.....	0	.....	.....	.....	.....	.....	0
0	.....	.....	0	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	—	.....	.....	.....	.....	.....	.....	.....	+
+	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	*
0	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	*
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	—	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	—
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	0
—	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	+
+	.....	.....	+	.....	—	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0

APPENDIX A—

SAND

TANK "C"—RATE 15,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
July 21....	12.00	.....	361	120	2	21	2	.....	—	0
.....	.....	4.00	362	120	4	64	2	.....	0	0
22....	10.00	.....	363	100	6	9	0	.....	0	0
				183.6	3.7	24.8	1.4	94.3		
22....	.....	4.00	36-	70	—	10	—	.....	+	+
23....	10.00	.....	364	70	5	3	9	.....	0	0
	12.00	.....	365	70	2	2	1	95.1	+	+
				70.	3.5	5.0	5.0	0.		
26....	12.00	.....	366	500	4	15	2	.....	.....	.....
.....	.....	4.00	367	62	54	10	1	.....	0	+
27....	10.00	.....	368	95	45	12	9	.....	.....	.....
	12.00	.....	369	18	5	4	1	.....	.....	.....
.....	.....	4.00	370	145	3	—	4	.....	0	0
28....	10.00	.....	371	10	0	6	3	.....	0	+
	12.00	.....	372	145	0	11	7	.....	.....	.....
.....	.....	4.00	373	175	1	91	7	90.2	+	+
				143.7	14	21.3	4.2	80.2		
30....	10.00	.....	374	350	7	3	13	98.0	0	0
Aug. 4....	10.00	.....	375	7	4	2	0	.....	.....	0
	12.00	.....	376	39	0	27	1	.....	.....	0
5....	10.00	.....	377	181	1	4	2	.....	0	0
	12.00	.....	378	91	2	0	0	.....	.....	0
6....	10.00	.....	379	24	0	1	0	.....	.....	.....
	12.00	.....	380	40	0	—	4	.....	.....	.....
8....	10.00	.....	381	80	1	0	0	98.2	.....	.....
				66.	1.1	5.66	1.0	82.3		
10....	10.00	.....	382	13	1	1	1	.....	0	0
	12.00	.....	383	23	1	0	1	.....	0	0
11....	10.00	.....	384	58	1	47	0	.....	0	0
	12.00	.....	385	58	1	17	0	.....	8	—
12....	10.00	.....	386	49	2	65	1	.....	—	0
	12.00	.....	387	52	4	20	—	.....	0	0
13....	10.00	.....	388	121	3	4	3	.....	0	0
	12.00	.....	389	93	3	1	2	.....	0	0
15....	10.00	.....	390	13	3	2	0	96.0	0	0
				53.3	2.1	17.4	1	94.2		
16....	12.00	.....	391	17	9	0	—	.....	0	0
17....	12.00	.....	392	51	7	1	1	76.5	0	0
				34.0	8.0	.....	.....	.....		

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
0			+		+								0
+			+		+								0
0			0		+								0
+			+		+								
0			0		0								0
+			+		+								0
—			—		—								0
0													
—													
—			—										0
+			+										
			+										
+			+										0
—			0										
0			0								0		
—			0								0		
0			0								0		
—			+								0		
0		0	0					0			0		
0		0	0					0			0		
0		0	0					0			0		
0			0		0						0		0
0			+		0						0		0
0			0		+						+		0
+			—		+						0		+
0			—		+						0		0
0			0		+						0		0
0			+		+						0		0
0			0		+						0		0
0			+		+	0	0	0			0		0
+			0			0	0	0			0		
0			0		—						0		0

APPENDIX A—

SAND

TANK "C"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
Aug. 30....	10.00	.....	393	233	114	12	85	.....	0	—
	12.00	.....	394	900	70	90	51	.....	—	—
31....	10.00	.....	395	140	22	8	23	.....	0	0
	12.00	.....	396	130	27	31	24	.....	+	+
	.....	4.00	397	60	13	4	17	.....	0	—
Sept. 1....	10.00	.....	398	280	9	34	6	.....	—	+
	12.00	.....	399	140	8	21	10	.....	+	+
2....	10.00	.....	400	1,440	17	7	4	.....	0	+
	12.00	.....	401	185	15	24	10	.....	+	+
	.....	4.00	402	164	12	36	13	.....	+	+
3....	10.00	.....	03	24	15	4	24	.....	0	+
	12.00	.....	404	18	9	6	8	.....	+	+
3....	10.00	.....	405	290	12	63	4	.....	.....	+
	12.00	.....	406	18	2	2	2	.....	.....	0
	.....	4.00	407	36	2	3	0	.....	—	+
7....	10.00	.....	408	130	4	11	4	.....	+	+
	12.00	.....	409	343	4	57	4	.....	.....	.....
	.....	4.00	410	150	6	3	2	.....	.....	.....
8....	10.00	.....	411	108	5	24	0	.....	+	+
	12.00	.....	stop'd	252	19.2	23.1	15.3			
8....	.....	4.00	412	—	6	4	5	.....	.....	+
9....	10.00	.....	413	310	13	47	10	.....	—	+
	12.00	.....	414	224	7	32	4	.....	+	+
	.....	4.00	415	116	9	45	8	.....	+	+
10....	10.00	.....	416	265	1	17	4	.....	+	+
	12.00	.....	417	77	3	25	8	.....	+	+
12....	10.00	.....	418	520	6	10	2	.....	+	+
	12.00	.....	419	600	7	240	4	.....	.....	.....
13....	10.00	.....	420	580	3	7	2	.....	.....	.....
14....	10.00	.....	421	2,000	9	80	8	.....	+	+
	12.00	.....	422	1,200	170	54	170	.....	+	+
	.....	4.00	423	900	11	25	8	.....	+	+
15....	10.00	.....	424	12	2	1	2	.....	+	+
	12.00	.....	425	16	0	3	2	.....	+	+
	.....	4.00	426	28	8	12	2	.....	+	+
16....	10.00	.....	427	32	3	7	5	.....	0	+
	12.00	.....	428	9	3	—	—	.....	0	+
	.....	4.00	429	16	2	4	7	.....	—	+
17....	10.00	.....	430	12	3	—	—	.....	—	+
19....	10.00	.....	431	73	0	15	2	.....	—	+
	12.00	.....	432	23	3	11	2	.....	+	—
	.....	4.00	433	103	4	4	1	.....	+	+
20....	10.00	.....	434	35	2	3	0	.....	0	0
22....	.....	5.00	435	142	7	9	5	.....	0	+
23....	10.00	.....	436	96	4	1	4	.....	+	+
	12.00	.....	437	320	4	2	2	.....	0	0
24....	12.00	.....	438	43	1	—	5	.....	—	+
	.....	.....	stop'd	298.0	11.1	27.8	10.8			
27....	.....	4.00	439	—	—	3	4	.....	0	—
28....	12.00	.....	440	536	7	44	2	.....	—	+

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
—	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	—
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	—	.....	—
0	.....	.....	—	.....	+	.....	.....	.....	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	+	.....	+
0	.....	.....	+	.....	—	.....	.....	.....	.....	.....	+	.....	+
+	.....	.....	+	.....	—	.....	+	+	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	+	—	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	—	+	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	—	+	.....	.....	+	.....	+
—	.....	.....	+	.....	+	.....	+	+	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	+	+	.....	.....	+	.....	+
.....	.....	.....	—	.....	+	.....	+	.....	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	—	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	+
+	.....	.....	+	.....	+	.....	0	.....	.....	.....	.....	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	—	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
+	.....	.....	+	.....	+	0	—	0	.....	.....	—	.....	+
+	.....	.....	+	.....	+	0	0	+	.....	.....	—	.....	—
+	.....	.....	+	.....	+	0	+	+	.....	.....	—	.....	+
+	.....	+	.....	.....	.....	.....	0	+	.....	.....	+	.....	.....
.....	.....	.....	+	.....	+	0	—	.....	—	.....	.....	.....	.....
.....	.....	.....	.....	.....	+	.....	0	.....	.....	.....	—	.....	+
.....	+	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	+	.....	+	.....	+	.....	—	+	.....	.....	—	.....	+
.....	+	.....	+	.....	+	.....	—	+	.....	.....	—	.....	.....
.....	+	.....	+	.....	+	.....	0	0	.....	.....	+	.....	.....
.....	+	.....	+	.....	+	.....	0	+	.....	.....	—	.....	.....
.....	+	.....	+	.....	+	.....	0	0	.....	.....	—	.....	.....
.....	+	.....	+	.....	+	.....	—	—	.....	.....	+	.....	.....
+	.....	.....	+	.....	.....	.....	0	0	.....	.....	—	.....	.....
+	.....	.....	+	.....	+	.....	0	+	.....	.....	—	.....	.....
+	.....	.....	+	.....	+	.....	+	0	.....	.....	0	.....	.....
—	.....	.....	+	.....	.....	.....	0	0	.....	.....	0	.....	.....
+	.....	.....	+	.....	.....	.....	0	0	.....	.....	—	.....	.....
.....	+	.....	+	.....	.....	.....	0	.....	0	.....	+	.....	.....
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	+
.....	0	.....	0	.....	*0	.....	*0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	.....	.....	—	.....	0	.....	+
.....	+	.....	+	.....	+	.....	+	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	0	.....	0	.....	—	.....	+
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	+
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	+

* Incubate 57°C.

APPENDIX A—

SAND

TANK "C"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
Sept. 29....	.....	5.00	441	590	4	—	3	.....	0	—
30....	.....	5.00	442	710	0	69	4	.....	0	0
Oct. 1....	12.00	.....	443	51	1	45	7	.....	0	0
3....	.....	5.00	444	247	1	5	3	.....	0	0
4....	.....	4.00	445	30	3	55	1	.....	.....	0
5....	12.00	.....	446	21	5	35	3	.....	.....	0
6....	12.00	.....	447	34	0	6	3	.....	.....	+
7....	12.00	.....	448	141	14	13	0	.....	.....	+
8....	12.00	.....	449	145	14	1	13	.....	.....	0
10....	12.00	.....	450	153	3	2	—	.....	.....	0
11....	.....	4.00	451	200	2	2	1	.....	.....	.....
12....	12.00	.....	452	71	10	0	2	.....	0	0
				225.3	5.0	21.5	3.5			

RATE 10,000,000 GALLONS

Oct. 13....	12.00	.....	453	28	7	2	13	.....	0	0
14....	12.00	.....	454	156	225	2	2	.....	0	0
15....	12.00	.....	455	71	120	6	4	.....	0	0
17....	.....	5.00	456	388	67	3	1	.....	0	+
18....	.....	5.00	457	180	150	9	101	.....	0	+
19....	.....	5.00	458	800	150	900	180	.....	0	0
20....	10.00	.....	459	640	120	50	50	.....	0	+
21....	.....	4.00	460	1,200	38	359	43	.....	—	—
	.....	.....	stop'd	433.0	109.6	166.5	49.2			
24....	.....	4.00	461	240	39	6	0	.....	0	+
25....	10.00	.....	462	130	6	3	3	.....	0	—
26....	10.00	.....	463	196	3	5	2	.....	0	—
27....	12.00	.....	464	—	—	8	1	.....	0	0
28....	.....	5,00	465	37	41	9	31	.....	0	0
Nov. 1....	10.00	.....	466	75	70	4	4	.....	0	0
2....	.....	3.30	467	4	2	3	11	.....	0	0
4....	.....	3.00	468	150	120	7	35	.....	0	0
5....	10.30	.....	469	52	360	6	96	.....	0	0
	.....	.....	stop'd	110.5	80.1	5.6	20.3			
8....	11.30	.....	470	2	1,500	0	1	.....	0	0
9....	10.00	.....	471	1	1,000	3	2	.....	0	0
10....	10.00	.....	472	186	400	9	2	.....	0	0
11....	.....	5,00	473	2	150	2	0	.....	0	0
12....	12.00	.....	474	12	75	3	2	.....	0	0
13....	10.00	.....	.....	.....	Rate ch	anged w	ithout cl	eaning	to 3,0	00,000
14....	10.00	.....	475	2	46	5	0	.....	0	0
15....	11.00	.....	476	0	14	2	0	.....	0	0
16....	12.00	.....	477	0	10	1	2	.....	0	0
17....	.....	5.00	478	0	800	0	1	.....	0	0
18....	11.30	.....	479	3	400	1	3	.....	0	0
19....	10.30	.....	480	0	157	1	1	.....	0	0
21....	.....	5.00	481	5	80	1	0	.....	0	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	0
.....	0	.....	+	.....	+	.....	0	.....	0	.....	+	.....	0
.....	—	.....	—	.....	+	.....	.....	.....	—	.....	—	.....	—
.....	.....	.....	.....	.....	.....	.....	.....	.....	0	.....	+	.....	0
.....	0	.....	—	.....	+	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	+	.....	.....	.....	0	.....	+	.....	—
.....	0	.....	+	.....	+	.....	.....	.....	0	.....	0	.....	—
.....	0	.....	+	.....	+	.....	.....	.....	—	.....	+	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	.....	.....	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	—

PER ACRE PER DAY.

.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	—
.....	+	.....	+	.....	+	.....	0	.....	.....	.....	0	.....	
.....	.....	.....	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	—	.....	0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	+
.....	+	.....	+	.....	+	—	—	.....	0	.....	—	.....	+
.....	—	.....	+	.....	+	0	0	.....	0	.....	0	.....	0
.....	0	.....	—	.....	0	0	—	.....	0	.....	0	.....	0
.....	—	.....	0	.....	+	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	0	—	.....	—	.....	0	.....	0
.....	0	.....	0	.....	0	0	0	.....	+	.....	0	.....	—
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	—
.....	0	.....	—	.....	+	0	0	.....	—	.....	0	.....	—
.....	0	.....	0	.....	0	0	0	.....	—	.....	0	.....	—
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	—	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	+	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	0	0	.....	0	.....	+	.....	+
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	—
Gals.	per ac	re per	day.										
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	0	0	.....	—	.....	—	.....	—
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	—	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0

APPENDIX A—

SAND

TANK "C"—RATE 3,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
Nov 22....	10.00	.....	482	8	20	8	0	.....	0	0
23....	.....	4.00	483	6	11	29	3	.....	0	0
24....	.....	5.00	484	1	7	1	0	.....	0	0
25....	10.30	.....	485	9	22	0	1	.....	0	0
26....	.....	1.00	486	5	26	4	2	.....	0	0
28....	10.00	.....	487	—	—	1	1	.....	0	0
29....	10.00	.....	488	—	—	11	2	.....	0	0
Dec. 1....	.....	5.00	489	2	3	2	1	.....	0	0
2....	.....	4.00	490	14	26	9	3	.....	0	0
3....	12.30	.....	491	16	7	10	3	.....	0	0
5....	9.30	.....	stop	13.7	237.7	4.5	1.3			
.....	.....	5.00	start	.....	.....	.....	.....	.....	.....	.....
6....	10.00	.....	492	7	3	2	0	.....	0	0
7....	.....	4.00	493	56	5	4	0	.....	0	0
8....	.....	3.30	494	11	2	3	1	.....	0	0
9....	.....	4.30	495	15	7	4	0	.....	0	0
10....	10.30	.....	496	100	2	—	—	.....	.....	.....
14....	.....	3.00	497	32	6	2	0	.....	0	0
15....	.....	5.30	498	22	4	5	2	.....	0	0
16....	.....	5.00	499	13	7	1	0	.....	0	0
19....	.....	3.00	500	45	4	2	0	.....	0	+
22....	.....	4.00	501	53	0	0	1	.....	0	0
27....	.....	4.00	502	50	12	—	3	.....	0	0
30....	.....	4.00	503	458	11	6	0	.....	0	0
Jan. 3....	.....	5.00	504	0	0	2	0	.....	+	0
				66.3	4.8	2.8	.6	.....		

Cont'nued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	—	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	—	.....	—	.....	+	.....	.....	.....	—	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	—	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	—
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	0	.....	—	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	+	.....	0	.....	.....	.....	0	.....	+	.....	+
.....	0	.....	+	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	—

APPENDIX A—

SAND

TANK "D"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Gauge Read. 6	Max. Loss of Head.	Bacterial Counts. 18°–22°C Inf.	Bacterial Counts. 18°–22°C Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1909										
Sept. 15....	10.20	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	10.30	.....	1	.....	.....	90	77	.....	.....	.....
	12.00	.....	2	.....	.....	120	200	.....	.....	.....
	.....	4.00	3	.....	.....	310	109	.....	.....	.....
16....	9.30	.....	4	0.61	0.61	230	30	.....	.....	.....
	12.00	.....	5	.....	.....	170	160	.....	.....	.....
	.....	4.00	6	.....	.....	70	59	.....	.....	.....
17....	9.30	.....	7	0.8	0.8	520	240	.....	.....	.....
	12.00	.....	8	.....	.....	180	70	.....	.....	.....
	.....	4.00	9	.....	.....	70	40	.....	.....	.....
18....	9.30	.....	10	0.9	0.9	330	147	.....	.....	.....
	12.00	.....	11	.....	.....	—	—	.....	.....	.....
20....	12.00	.....	12	1.5	1.5	260	43	.....	.....	.....
	.....	4.15	13	.....	.....	150	25	.....	.....	.....
21....	9.30	.....	14	2.0	2.0	160	34	.....	.....	.....
	12.00	.....	15	.....	.....	80	22	.....	.....	.....
	.....	4.00	16	.....	.....	148	13	.....	.....	.....
22....	9.30	.....	17	2.3	2.3	560	18	.....	.....	.....
	12.00	.....	18	.....	.....	250	12	.....	.....	.....
	.....	4.00	19	.....	.....	680	10	.....	.....	.....
23....	9.30	.....	20	2.95	2.95	350	20	.....	.....	.....
	12.00	.....	21	.....	.....	160	6	.....	.....	.....
	.....	12.40	stop	3.3	3.3	244.4	66.7	72.6		
	.....	5.00	start	0.0	0.0	.....	.....	.....	.....	.....
24....	9.45	.....	23	0.7	0.7	540	7	.....	.....	.....
	12.00	.....	24	.....	.....	250	9	.....	.....	.....
	.....	4.00	25	.....	.....	430	—	.....	.....	.....
25....	9.30	.....	26	0.65	0.65	390	2	.....	.....	.....
	12.00	.....	27	.....	.....	24000	1	.....	.....	.....
25....	.....	4.00	28	.....	.....	299	8	.....	.....	.....
27....	9.30	.....	29	.....	.....	330	1	.....	.....	.....
	12.00	.....	30	1.0	1.0	610	2	.....	.....	.....
	.....	4.00	31	1.0	1.0	490	2	.....	.....	.....
28....	9.30	.....	32	1.4	1.25	1,180	2	.....	.....	.....
	12.00	.....	33	.....	.....	920	3	.....	.....	.....
	.....	4.00	34	1.8	1.8	730	0	.....	.....	.....
20....	9.30	.....	35	.....	.....	1,200	14	.....	.....	.....
	.....	4.00	36	.....	.....	110	1	.....	.....	.....
30....	9.30	.....	37	2125	2.29	310	3	.....	.....	.....
	12.00	.....	38	.....	.....	1,300	6	.....	.....	.....
	.....	4.00	43	.....	.....	214	1	.....	.....	.....
Oct. 1....	9.30	.....	44	.....	.....	280	3	.....	.....	.....
	12.00	.....	48	.....	.....	257	0	.....	.....	.....
	.....	3.00	stop	3.15	3.15	1,781	3.4	99.7		
2....	10.45	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	12.00	.....	51	1.0	1.0	76	28	.....	.....	.....
4....	12.00	.....	52	.....	.....	140	7	.....	.....	.....
	.....	4.00	53	0.9	0.9	157	2	.....	.....	.....
5....	9.30	.....	54	0.9	0.9	200	4	.....	.....	.....
	12.00	.....	55	0.9	0.9	112	1	.....	.....	.....
	.....	4.00	56	1.0	1.0	173	2	.....	.....	.....
6....	9.30	.....	57	1.0	1.0	440	2	.....	.....	.....
	12.00	.....	58	1.1	1.1	230	2	.....	—	—

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

APPENDIX A—

SAND

TANK "D"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date. 1909	Hour. A.M.	Hour. P.M.	Serial No.	Gauge read. 6	Max. loss of head.	Bacterial counts. 18°-22°C Inf.	Bacterial counts. 18°-22°C Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
Oct. 6....	.....	4.00	59	1.05	1.05	260	4	.....	+	+
7....	9.30	.....	60	1.25	1.25	270	2	.....	+	+
	12.00	.....	61	.....	.....	220	1	.....	+	+
	.....	4.00	62	1.3	1.3	220	1	.....	—	+
8....	9.30	.....	63	1.5	1.5	940	4	.....	.....	.....
	12.00	.....	64	1.5	1.5	290	14	.....	—	+
	.....	4.00	65	1.55	1.55	940	16	.....	+	+
9....	9.30	.....	66	1.8	1.8	200	2	.....	.....	.....
	12.00	.....	67	1.8	1.8	400	1	.....	+	+
11....	9.30	.....	68	2.4	2.4	560	30	.....	—	—
	12.00	.....	69	2.45	2.45	150	1	.....	—	+
	.....	4.00	70	2.6	2.6	89	0	.....	—	+
12....	9.30	.....	71	2.9	2.9	144	1	.....	—	+
	12.00	.....	72	2.95	2.95	151	0	.....	—	+
	.....	4.00	73	2.9	2.9	157	0	.....	+	+
13....	9.30	.....	74	3.2	3.2	151	2	.....	—	+
	11.30	.....	stop	3.3	3.3	278.3	5.3	98.0		
14....	11.30	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	.....	4.00	79	1.0	1.0	150	0	.....	—	+
15....	9.30	.....	80	0.8	0.8	151	8	.....	.....	.....
	12.00	.....	81	0.8	0.8	1,520	89	.....	.....	.....
	.....	4.00	82	0.8	0.8	240	3	.....	.....	.....
16....	9.30	.....	83	0.8	0.8	70	1	.....	.....	.....
	12.00	.....	84	0.8	0.8	202	320	.....	.....	.....
18....	12.00	.....	85	0.8	0.8	220	2	.....	.....	.....
	.....	3.30	86	0.8	0.8	129	1	.....	.....	.....
19....	9.30	.....	87	1.0	1.0	160	4	.....	.....	.....
	12.00	.....	88	.....	.....	330	2	.....	.....	.....
	.....	4.00	89	1.0	1.0	460	1	.....	.....	.....
20....	9.30	.....	90	1.1	1.1	170	0	.....	.....	.....
	12.00	.....	91	1.15	1.15	1,200	1	.....	.....	.....
	.....	4.00	92	1.5	1.5	3,460	9	.....	.....	.....
21....	9.30	.....	93	1.8	1.8	2,580	3	.....	.....	.....
	12.00	.....	94	1.8	1.8	920	30	.....	.....	.....
	.....	4.00	95	1.9	1.9	1440	14	.....	.....	.....
22....	9.00	.....	stop	3.3	3.3	788.3	28.1	96.4		
26....	.....	4.45	start	0.0	0.0	.....	.....	.....	.....	.....
27....	9.30	.....	97	0.9	0.9	91	3	.....	—	+
	12.00	.....	98	0.9	0.9	60	5	.....	—	+
	.....	4.00	99	0.9	0.9	40	1	.....	+	—
28....	12.00	.....	100	0.9	0.9	35	0	.....	—	+
	.....	3.00	101	0.8	0.8	60	0	.....	—	—
29....	.....	3.00	102	0.8	0.8	60	4	.....	—	+
30....	9.30	.....	103	0.9	0.9	55	0	.....	+	+
	12.00	.....	104	0.9	0.9	80	0	.....	.....	.....
Nov. 1....	9.30	.....	105	1.3	1.3	130	1	.....	.....	.....
	12.00	.....	106	1.6	1.6	60	2	.....	.....	.....
	.....	3.00	107	1.6	1.6	30	0	.....	.....	.....
3....	.....	4.00	108	2.55	2.55	41	0	.....	.....	.....
5....	9.30	.....	109	3.0	2.0	70	0	.....	.....	.....
	12.00	.....	110	3.1	3.1	60	10	.....	.....	.....
	.....	3.00	111	2.15	3.15	35	0	.....	.....	.....
		5.00	stop	3.3	3.3	60.4	1.7	97.1		

Continued,

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
+	+	+	+	+	+	—	—	—	+	+	+	—	—
+	+	+	+	+	+	—	+	—	—	—	+	+	+
+	+	+	+	+	+	—	+	—	—	—	+	—	+
+	+	+	+	+	+	—	—	+	—	—	+	+	+
+	+	+	+	+	+	—	—	—	+	+	+	+	+
+	+	+	+	+	+	—	—	—	—	—	+	+	+
+	+	+	+	+	+	—	—	—	+	—	—	+	+
+	+	+	+	+	+	—	—	—	—	—	—	—	—
+	+	+	+	+	+	—	—	—	—	—	+	—	—
+	+	+	+	+	+	—	—	—	—	+	—	+	—
+	+	+	+	+	+	—	—	—	—	+	+	+	+
+	+	+	+	+	+	—	+	—	+	—	—	+	+
+	+	+	+	+	+	—	—	—	—	+	+	+	—
+	+	+	+	+	+	—	+	+	+	—	+	+	+
+	+	+	+	+	+	+	—	—	+	+	+	+	+
+	+	+	+	+	+	—	—	+	—	+	+	+	+
+	+	+	+	+	+	—	—	+	+	—	—	+	—
+	+	+	+	+	+	—	+	—	+	—	—	+	+
+	+	+	+	+	+	—	+	+	+	+	+	+	+
—	+	+	+	+	+	—	—	—	—	+	—	—	+

APPENDIX A—

SAND

TANK "D"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Gauge Read 6	Max. Loss of Head	Bacterial Counts. 18°-22°C Inf.	Bacterial Counts. 18°-22°C Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1909										
Nov. 6....	.....	1.00	start	0.0	0.0	.....	.....	.....	.....	.....
8....	12.00	.....	114	0.7	0.7	55	0	.....	.....	.....
	.....	4.00	115	0.7	0.7	85	0	.....	.....	.....
9....	10.00	.....	116	0.7	0.7	100	1	.....	.....	.....
	12.00	.....	117	0.7	0.7	75	1	.....	.....	.....
	.....	4.00	118	0.7	0.7	65	1	.....	.....	.....
10....	9.30	.....	119	1.3	1.3	65	1	.....	—	—
	12.00	.....	120	1.4	1.4	120	0	.....	+	+
	.....	3.00	121	1.6	1.6	65	0	.....	—	—
11....	9.30	.....	122	2.4	2.4	80	0	.....	—	—
	12.00	.....	123	2.65	2.65	50	0	.....	—	—
	.....	3.30	124	2.8	2.8	35	0	.....	—	—
12....	9.30	.....	125	3.5	3.5	40	0	.....	+	—
	9.30	.....	stop	.....	.....	69.5	0.3	99.6		
13....	10.00	.....	start	0.0	0.0	.....	.....	.....	.....	.....
	12.00	.....	128	0.9	0.9	90	960	.....	—	—
15....	9.30	.....	129	0.8	0.8	21	0	.....	—	—
	12.00	.....	130	0.8	0.8	75	35	.....	—	—
	.....	4.00	131	0.9	0.9	—	—	.....	—	—
16....	9.30	.....	132	0.9	0.9	400	12	.....	—	—
	.....	4.00	133	0.8	0.8	100	19	.....	—	—
17....	12.00	.....	134	2.2	2.2	430	41	.....	—	—
	.....	4.00	125	1.45	1.45	800	10	.....	+	+
18....	9.30	.....	136	1.8	1.8	250	—	.....	—	+
	12.00	.....	137	1.8	1.8	90	5	.....	—	+
	.....	4.00	138	1.85	1.85	125	—	.....	+	+
19....	9.30	.....	139	2.1	2.1	280	—	.....	.....	.....
	12.00	.....	140	2.1	2.1	165	—	.....	.....	.....
22....	.....	3.30	141	3.35	3.35	6400	0	.....	+	+
	.....	3.30	stop			934	120.2	87.2		
29....	.....	1.00	start	.....	.....	.....	.....	.....	.....	.....
29....	.....	4.00	149	.....	.....	300	23	.....	.....	.....
30....	9.30	.....	150	.....	.....	330	11	.....	.....	.....
Dec. 1....	9.30	.....	151	.....	.....	90	0	.....	.....	.....
	12.00	.....	152	.....	.....	140	12	.....	.....	.....
	.....	4.00	153	.....	.....	110	34	.....	.....	.....
2....	9.30	.....	154	.....	.....	160	22	.....	.....	.....
3....	9.30	.....	155	.....	.....	450	18	.....	.....	.....
4....	9.30	.....	156	.....	.....	85	4	.....	.....	.....
	9.30	.....	stop	.....	.....	208.1	17.9	91.4		
6....	.....	4.30	start	.....	.....	.....	.....	.....	.....	.....
	.....	4.30	158	.....	.....	—	—	—	.....	.....
9....	9.30	.....	159	.....	.....	—	—	—	.....	.....
	9.30	.....	stop	.....	.....	.....	.....	.....	.....	.....

New Sand placed on filters in Feb. 20 cu. yds. received Jan. 28th, 1910.

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
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+	+	+	—	+	+	—	—	—	—	+	—	—	—
—	—	—	+	+	+	—	+	—	+	+	+	+	+
+	+	+	—	—	—	—	—	+	+	+	—	—	+
+	+	+	+	+	+	—	+	—	—	+	—	—	+
+	+	—	+	+	+	—	—	—	—	—	—	—	+
+	+	+	+	+	+	—	—	—	--	—	—	+	+
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+	+	+	+	+	+	—	—	+	—	—	—	—	—
+	+	+	+	+	+	—	—	+	—	—	—	—	—
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APPENDIX A—

SAND

TANK "D"—RATE 20,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
Feb. 16....	.....	5.00	start	.....	.....	.....	.....	.....	.....	.....
17....	9.30	.....	stop	.....	.....	.....	.....	.....	.....	.....
	.....	5.00	start	.....	.....	.....	.....	.....	.....	.....
18....	.....	5.00	stop	.....	.....	.....	.....	.....	.....	.....
April 4....	12.00	.....	start	.....	.....	.....	.....	.....	.....	.....
	.....	4.00	246	142	115	.....	.....	.....	0	0
5....	10.00	.....	247	96	100	.....	.....	.....	0	0
	12.00	.....	248	180	71	.....	.....	.....	0	0
	.....	4.00	249	47	47	.....	.....	.....	0	0
6....	9.30	.....	stop	166.	83.	.....	.....	50.		
8....	10.00	.....	start	.....	.....	.....	.....	.....	.....	.....
	12.00	.....	257	28	22	.....	.....	.....	0	0
	.....	4.00	258	38	17	.....	.....	.....	0	0
9....	10.00	.....	259	3	0	.....	.....	.....	0	+
	12.00	.....	260	0	0	.....	.....	.....	0	0
	.....	1.00	stop	17.25	9.75	.....	.....	43.4		

RATE 12,000,000 GALLONS

May 5....	.....	4.00	269	108	8	6	2	.....	.....	.....
6....	10.00	.....	270	162	8	29	10	.....	.....	.....
	12.00	.....	271	222	69	48	9	.....	.....	.....
	.....	4.00	272	117	51	12	4	.....	.....	.....
7....	10.00	.....	273	19	4	.....	6	.....	.....	.....
	12.00	.....	274	25	7	18	11	77.5	.....	.....
				109.	24.5	22.6	7.0	69.0		
10....	.....	4.00	275	108	7	31	21	.....	.....	.....
11....	10.00	.....	276	17	1	14	6..	.....	.....	.....
	12.00	.....	277	.....	14	22	.....	.....	.....	.....
	.....	4.00	278	38	18	.....	8	.....	.....	.....
12....	10.00	.....	279	172	14	23	9	.....	.....	.....
	12.00	.....	280	158	7	16	10	.....	.....	.....
	.....	4.00	281	30	8	8	1	.....	.....	.....
13....	10.00	.....	282	100	14	18	4	.....	.....	.....
	12.00	.....	283	86	40	65	8	.....	.....	.....
	.....	4.00	284	86	29	20	8	.....	.....	.....
14....	10.00	.....	285	.....	3	.....	8	.....	.....	.....
	12.00	.....	286	.....	10	.....	8	84.4	.....	.....
				88.3	13.75	24.1	8.27	65.7		
				.....	.....	.....	.....	77.5	.....	.....
21....	12.00	.....	287	14.7	33	14	4	71.5		
26....	12.00	.....	288	130	4	15	5	.....	.....	.....
	.....	4.00	289	35	5	5	8	.....	0	0
27....	10.00	.....	290	25	2	10	4	.....	.....	.....
	12.00	.....	291	47	3	6	4	.....	.....	.....
	.....	4.00	292	80	8	20	2	.....	.....	.....

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
0	0	0				0	0	0	0	0			
0	0	0				0	0	0	0	0			
0	0	0				0	0	0	0	0			
0	0	0				0	0	0	0	0			
0	0	0		0				0	0	0		0	
0	0	0		0				0	0	0		0	
+	+	+		+				0	0	0		0	
0	0	0		0				0	0	0		0	

PER ACRE PER DAY.

					0								0
					0								0
					0								0
					0								0
					0								0
					0								0
					0								0
					+								0
0		0			0								0
					0								0

APPENDIX A—

SAND

TANK "D"—RATE 12,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
May 28....	10.00	.....	293	40	3	20	.....	.....	.....	.....
	12.00	.....	294	48	4	20	3	.....	.....	.....
30....	10.00	.....	295	66	3	10	2	93.8	.....	.....
				58.9	388	13.25	4.	69.8		
June 1....	12.00	.....	296	58	13	4	7	.....	.....	.....
	.....	4.00	297	100	3	8	3	.....	0	0
2....	10.00	.....	298	45	4	4	2	.....	.....	.....
								90.3		
				67.6	6.6	5.3	4	24.6		
3....	.....	4.00	299	26	4	5	2	.....	0	0
4....	10.00	.....	300	40	3	15	5	.....	.....	.....
	12.00	.....	301	1,440	0	40	3	99.6	0	—
				502.	2.3	20.	3.3	83.5		
6....	.....	4.00	302	45	16	30	—	.....	0	0
7....	10.00	.....	303	100	10	8	1	.....	.....	.....
	12.00	.....	304	140	1	9	2	.....	.....	.....
	.....	4.00	305	128	4	2	3	.....	0	0
8....	10.00	.....	306	150	15	4	2	.....	.....	.....
	12.00	.....	307	180	5	10	0	.....	.....	.....
	.....	4.00	308	340	10	11	1	.....	0	0
								94.2		
				155.	8.7	10.6	1.5	85.8		
13....	12.00	.....	309	95	27	8	13	.....	0	0
	.....	4.00	310	110	14	15	1	.....	0	0
14....	10.00	.....	311	90	13	6	1	.....	0	0
	12.00	.....	312	36	11	7	2	.....	0	0
	.....	4.00	313	50	6	2	2	.....	0	0
15....	10.00	.....	314	35	3	5	1	.....	0	0
	12.00	.....	—	33	—	1	—	.....	0	0
16....	10.00	.....	315	50	8	2	0	.....	+	+
	12.00	.....	316	66	2	0	1	.....	0	0
	.....	4.00	317	58	9	6	3	.....	0	+
17....	10.00	.....	318	84	40	5	5	.....	0	0
	12.00	.....	219	80	—	5	—	.....	0	—
	.....	4.00	320	130	45	5	4	.....	0	0
18....	10.00	.....	321	53	13	1	2	.....	0	0
	12.00	.....	322	75	15	3	1	.....	0	0
20....	10.00	.....	323	30	15	0	2	.....	0	0
								76.5		
				67.2	15.8	4.4	2.7	38.6		

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
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APPENDIX A—

SAND

TANK "D"—RATE 12,000,000 GALLONS

EXPERIMENTAL STATION.

Date. 1910	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
June 21....	.....	4.00	324	110	20	5	2	Infection present, due to placing of strips.	0	0
22....	10.00	.....	325	16	24	12	4		0	0
	12.00	.....	326	35	9	5	3		0	0
	.....	4.00	327	46	6	28	1		+	0
23....	10.00	.....	328	75	85	3	1		0	0
	12.00	.....	329	45	40	12	4		0	0
	.....	4.00	330	30	66	18	3		0	0
24....	10.00	.....	331	34	160	17	3		0	0
	12.00	.....	332	110	100	8	6		0	+
	.....	4.00	333	51	18	8	7		0	0
25....	10.00	.....	334	20	36	7	4		0	0
	12.00	.....	335	26	60	5	13		0	0
				49.9	52.0	10.7	42.5			
27....	.....	4.00	336	40	18	3	5	.....	0	0
28....	10.00	.....	337	52	9	6	1	.....	0	0
	12.00	.....	338	16	2	1	0	.....	0	+
	.....	4.00	339	14	3	10	0	.....	0	0
29....	10.00	.....	340	16	4	0	1	.....	0	0
	12.00	.....	341	21	2	0	0	.....	0	—
	.....	4.00	342	—	—	2	0	.....	0	—
July 4....	12.00	.....	343	145	33	66	5	.....	+	+
	.....	4.00	344	32	54	1	7	.....	—	+
5....	10.00	.....	345	145	19	45	3	.....	—	+
	12.00	.....	346	400	35	90	5	.....	0	+
	.....	4.00	347	190	14	30	5	.....	.....	.....
6....	10.00	.....	348	430	26	23	3	.....	0	+
				117.0	18.25	21.3	2.7	85.2 87.5		
6....	.....	4.00	349	18	10	9	3	.....	—	—
7....	10.00	.....	350	175	6	33	3	.....	0	+
	12.00	.....	351	110	0	3	1	.....	—	—
	.....	4.00	352	90	3	3	1	.....	0	+
8....	10.00	.....	353	42	1	6	1	.....	0	0
	12.00	.....	354	50	3	3	1	.....	0	—
	.....	4.00	355	44	48	21	1	.....	0	0
9....	10.00	.....	356	28	4	1	2	.....	0	0
	12.00	.....	357	325	4	165	1	91.2	+	+
				98.0	8.7	22.1	1.5	94.5		
12....	12.00	.....	358	94	4	12	5	.....	—	—
	.....	4.00	359	31	4	6	5	.....	0	+
13....	10.00	.....	360	28	2	3	0	.....	—	—
	12.00	.....	361	21	2	8	1	.....	0	—
	.....	4.00	362	65	2	6	2	.....	0	0
14....	12.00	.....	363	60	1	10	1	.....	0	+
	.....	4.00	364	68	3	20	3	95.4	0	0
				52.4	2.5	9.28	2.4	74.2		
15....	12.00	.....	365	96	20	3	0	.....	0	0
	.....	4.00	366	17	0	6	0	.....	—	—

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
0	.....	+	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
+	.....	0	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	+
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+	.....	.....	—	.....	+	.....	0	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	0	.....	.....	.....	.....	.....	0
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0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
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0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
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0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0

APPENDIX A--

SAND

TANK "D"—RATE 12,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
July 16....	10.00	.....	367	140	1	35	2	.....	+	+
	12.00	.....	368	280	0	51	0	96.8	+	+
				133.2	5.2	23.7	.5	97.8		
18....	.....	4.00	369	36	41	1	7	.....	0	+
19....	10.00	.....	370	67	0	6	1	.....	0	+
	12.00	.....	371	—	—	13	1	.....	0	0
	.....	4.00	372	100	7	12	1	.....	0	0
20....	10.00	.....	373	170	7	3	5	.....	+	—
	12.00	.....	374	126	5	80	1	.....	+	+
	.....	4.00	325	84	3	19	6	.....	0	+
21....	10.00	.....	376	115	1	45	2	.....	—	+
	12.00	.....	377	120	4	21	0	.....	—	0
	.....	4.00	378	120	2	64	4	.....	0	0
22....	10.00	.....	379	100	5	9	3	93.0	0	0
				103.8	7.5	24.8	2.8	88.7		
23....	10.00	.....	380	70	3	3	2	.....	0	0
	12.00	.....	381	70	1	2	1	97.2	+	+
				70	2	2.5	1.5	40.0		
26....	1.200	.....	382	500	15	15	8	.....	.....	.....
	.....	4.00	383	62	9	10	4	.....	0	+
27....	10.00	.....	384	95	12	12	5	.....	.....	.....
	12.00	.....	385	18	4	4	1	.....	.....	.....
	.....	4.00	386	145	14	—	6	.....	0	0
28....	10.00	.....	387	10	8	6	9	.....	0	+
	12.00	.....	388	145	3	11	9	.....	.....	.....
	.....	4.00	389	175	2	91	4	.....	+	+
29....	10.00	.....	390	65	9	7	2	.....	0	0
	12.00	.....	391	39	2	4	1	.....	0	0
30....	10.00	.....	392	350	7	3	2	.....	0	0
Aug. 2....	10.00	.....	393	10	2	7	1	.....	.....	.....
	12.00	.....	394	6	1	9	1	.....	.....	.....
3....	10.00	.....	395	10	0	3	1	.....	.....	0
	12.00	.....	396	10	4	3	1	.....	.....	0
4....	10.00	.....	397	7	0	2	0	.....	.....	0
	12.00	.....	398	39	1	27	0	.....	.....	0
5....	10.00	.....	399	181	15	4	0	92.0	0	0
				76.0	6.0	12.1	3.5	71.1		
5....	12.00	.....	400	91	8	0	2	.....	.....	0
6....	10.00	.....	401	24	2	1	1	.....	.....	.....
	12.00	.....	402	40	9	—	11	.....	.....	.....
8....	10.00	.....	403	80	1	0	0	91.5	.....	.....
				58.7	5	.3	3.5	.....		
10....	10.00	.....	404	13	3	1	3	.....	0	0
	12.00	.....	405	23	0	0	1	.....	0	0
11....	10.00	.....	406	58	0	47	0	.....	0	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	—	.....	±	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	—
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	0
—	.....	.....	+	.....	±	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	—	.....	.....	.....	.....	.....	.....	.....	±
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	±	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	0	.....	+	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	0
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—	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	0
0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
—	.....	.....	—	.....	—	.....	.....	.....	.....	.....	.....	.....	0
+	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
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+	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	.....	—	.....	.....	.....	.....	.....	.....	.....	.....	.....	0
—	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	±	.....	.....	.....	.....	.....	.....	.....	0	.....	0
0	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0	.....	.....
0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0	.....	.....
0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0	.....	.....
—	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0	.....	.....
0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0	.....	.....
—	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0	.....	.....
0	.....	0	0	.....	.....	.....	.....	—	.....	.....	.....	0	.....
0	.....	0	0	.....	.....	.....	.....	0	.....	.....	.....	0	.....
0	.....	0	0	.....	.....	.....	.....	0	.....	.....	.....	0	.....
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	0	.....	0
0	.....	.....	+	.....	0	.....	.....	.....	.....	.....	0	.....	0
0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0	.....	0

APPENDIX A—

SAND

TANK "D"—RATE 12,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910										
Aug. 11....	12.00	.....	407	58	1	17	0	.....	0	—
12....	10.00	.....	408	49	0	65	2	.....	—	0
	12.00	.....	409	52	3	20	1	.....	0	0
13....	10.00	.....	410	121	1	4	0	.....	0	0
	12.00	.....	411	93	0	1	1	.....	0	0
15....	10.00	.....	412	13	1	2	0	98.0	0	0
				53.3	1	17.3	.9	94.7		
16....	12.00	.....	413	17	4	0	0	.....	0	0
17....	12.00	.....	414	137	2	2	1	.....	0	0
18....	10.00	.....	415	127	2	10	4	97.0	0	—
				93.6	2.66	4	1.6	60.0		

RATE 5,000,000 GALLONS

30....	10.00	.....	416	233	82	12	77	.....	0	—
	12.00	.....	417	900	76	90	65	.....	—	—
31....	10.00	.....	418	140	42	8	38	.....	0	0
	12.00	.....	419	130	28	31	25	.....	+	+
	.....	4.00	420	60	26	4	21	.....	0	—
Sept. 1....	10.00	.....	421	280	19	34	19	.....	—	+
	12.00	.....	422	140	29	21	15	.....	+	+
2....	10.00	.....	423	1,440	18	7	12	.....	0	+
	12.00	.....	424	185	10	4	16	.....	+	+
	.....	4.00	425	164	16	36	10	.....	+	+
3....	10.00	.....	426	24	31	4	24	.....	0	+
	12.00	.....	427	18	7	6	8	.....	+	+
6....	10.00	.....	428	290	5	63	2	.....	.....	+
	12.00	.....	429	18	4	2	7	.....	.....	0
	.....	4.00	430	36	11	3	7	.....	—	+
7....	10.00	.....	431	130	11	11	6	.....	+	+
	12.00	.....	432	343	17	57	6	.....	.....	.....
	.....	4.00	433	150	12	3	4	.....	.....	.....
8....	10.00	.....	434	108	11	24	11	.....	+	+
	12.00	.....	435	62	4	11	9	.....	0	+
	.....	4.00	436	—	6	4	10	.....	.....	+
9....	10.00	.....	437	310	17	47	8	.....	—	+
	12.00	.....	438	224	15	32	8	.....	+	+
	.....	4.00	439	116	7	45	7	.....	+	+
10....	10.00	.....	440	265	7	17	16	.....	+	+
			stop'd	215.9	21.3	24.8	18.0			
12....	12.00	.....	442	600	15	240	7	.....	.....	.....
13....	10.00	.....	443	580	13	7	5	.....	.....	.....
14....	10.00	.....	444	2,000	23	80	34	.....	+	+
	12.00	.....	445	1,200	23	54	16	.....	+	+
	.....	4.00	446	900	13	25	2	.....	+	+
15....	10.00	.....	447	12	3	1	2	.....	+	+
	12.00	.....	448	16	3	3	3	.....	+	+
	.....	4.00	449	28	8	12	4	.....	+	+

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
+	.....	.....	—	.....	+	.....	.....	.....	.....	.....	0	.....	+
0	.....	.....	—	.....	+	.....	.....	.....	.....	.....	0	.....	0
0	.....	.....	0	.....	+	.....	.....	.....	.....	.....	0	.....	0
0	.....	..	+	.....	+	.....	.....	.....	.....	.....	0	.....	0
0	.....	.....	0	.....	+	.....	.....	.....	.....	.....	0	.....	0
0	.....	.....	+	.....	+	0	0	0	.....	.....	0	.....	0
+	.....	.....	0	.....	.....	0	0	0	.....	.....	0	.....	.....
0	.....	.....	0	.....	—	.....	.....	.....	.....	.....	0	.....	0
0	.....	..	0	.....	+	.....	.....	.....	.....	.....	0	.....	0

PER ACRE PER DAY,

—	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	+	.....	+
0	.....	.....	+	.....	+	.....	.....	.....	.....	.....	—	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	+	.....	+
0	.....	.....	+	.....	—	.....	.....	.....	.....	.....	+	.....	+
+	.....	.....	+	.....	—	.....	+	+	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	—	+	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	—	—	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	0	+	.....	.....	+	.....	+
—	.....	.....	+	.....	+	.....	0	0	.....	.....	+	.....	+
+	.....	.....	+	.....	+	.....	0	—	.....	.....	—	.....	+
.....	.....	.....	—	.....	+	.....	0	.....	.....	.....	—	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	0	.....	+
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	—
+	.....	.....	+	.....	+	.....	0	.....	.....	.....	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	0	.....	.....
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+	.....	.....	+	.....	+	0	0	0	.....	.....	0	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	.....
+	.....	.....	+	.....	+	0	—	—	.....	.....	+	.....	—
+	.....	.....	+	.....	+	—	—	+	.....	.....	—	.....	+
+	.....	.....	+	.....	.....	.....	—	—	.....	.....	—	.....	.....
+	.....	+	.....	.....	.....	0	0	.....	—	.....	.....	.....	.....
.....	.....	.....	+	.....	+	.....	0	.....	.....	.....	—	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	—	.....	.....	.....	.....
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.....	+	.....	+	.....	+	.....	—	+	.....	.....	—	.....	0
.....	+	.....	+	.....	+	.....	0	0	.....	.....	—	.....	.....
.....	+	.....	+	.....	+	.....	0	—	.....	.....	—	.....	.....
.....	+	.....	+	.....	+	.....	0	0	.....	.....	0	.....	.....
.....	+	.....	+	.....	+	.....	0	0	.....	.....	0	.....	.....
.....	+	.....	+	.....	+	.....	0	0	.....	.....	0	.....	.....

APPENDIX A—

SAND

TANK "D"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date. 1910	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
Sept. 16....	10.00	.....	450	32	13	7	—	.....	0	+
	12.00	.....	451	9	5	—	—	.....	0	+
	.....	4.00	452	16	3	4	2	.....	—	+
17....	10.00	.....	453	12	4	—	—	.....	—	+
19....	10.00	.....	454	73	5	15	2	.....	—	+
	12.00	.....	455	23	1	11	1	.....	+	—
	.....	4.00	456	103	7	4	—	.....	+	+
20....	10.00	.....	457	35	6	3	0	.....	0	0
22....	.....	5.00	458	142	4	9	—	.....	0	+
23....	10.00	.....	459	96	4	1	1	.....	+	+
	12.00	.....	460	320	13	2	1	.....	0	0
24....	12.00	.....	461	43	6	—	5	.....	—	+
			stop'd	312	3.1	28.1	5.6			
27....	.....	4.00	462	—	—	.....	10	.....	0	—
28....	12.00	.....	463	536	9	44	10	.....	—	+
29....	.....	5.00	464	590	13	—	10	.....	0	—
30....	.....	5.00	465	710	6	69	10	.....	0	0
Oct. 1....	12.00	.....	466	51	2	45	9	.....	0	0
3....	.....	5.00	467	247	6	5	4	.....	0	0
4....	.....	4.00	468	30	9	55	1	.....	.....	0
5....	12.00	.....	469	21	6	35	5	.....	.....	0
6....	12.00	.....	470	34	2	6	1	.....	.....	+
7....	12.00	.....	471	141	19	13	2	.....	.....	+
8....	12.00	.....	472	145	1	1	1	.....	.....	0
10....	12.00	.....	473	153	3	2	0	.....	.....	0
11....	.....	4.00	474	200	24	2	1	.....	.....	.....
12....	12.00	.....	475	71	2	0	2	.....	0	0
13....	12.00	.....	476	28	7	3	5	.....	0	0
			stop'd	211.2	7.8	20.0	5.0			

RATE 10,000,000 GALLONS

Oct. 15....	12.00	.....	477	71	8	6	600	.....	0	0
17....	.....	5.00	478	388	1000	3	3	.....	0	+
18....	.....	5.00	479	180	61	9	9	.....	0	+
19....	.....	5.00	480	800	122	900	89	.....	0	0
20....	10.00	.....	481	640	63	50	9	.....	0	+
21....	.....	4.00	482	1200	11	359	7	.....	—	—
			stop'd	546.5	210.8	221.1	119.5			
24....	.....	4.00	483	240	1	6	2	.....	0	+
25....	10.00	.....	485	130	0	3	1	.....	0	—
26....	10.00	.....	486	196	0	5	2	.....	0	—
27....	12.00	.....	487	—	—	8	0	.....	0	0
28....	.....	5.00	489	37	4	9	9	.....	0	0
29....	12.00	.....	490	59	12	7	1	.....	0	0
Nov. 1....	10.00	.....	491	75	19	4	3	.....	0	0
2....	.....	3,30	492	4	3	3	0	.....	0	0
4....	.....	3.00	493	150	30	7	1	.....	0	0
5....	10.30	.....	494	52	5	6	3	.....	.....	.....
			stop'd	104.7	8.2	5.8	2.2			

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
+	.....	.....	+	.....	.....	.....	—	—	.....	.....	—	.....	.....
+	.....	.....	+	.....	+	.....	0	0	.....	.....	0	.....	.....
+	.....	.....	+	.....	+	.....	—	—	.....	.....	—	.....	.....
—	.....	.....	+	.....	.....	.....	0	0	.....	.....	—	.....	.....
+	.....	.....	+	.....	.....	.....	0	0	.....	.....	0	.....	.....
.....	+	.....	+	.....	.....	.....	0	0	.....	.....	0	.....	.....
.....	+	.....	+	.....	+	.....	0	0	.....	.....	0	.....	0
.....	0	.....	0	.....	*0	.....	*0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	.....	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	0
.....	0	.....	+	.....	+	.....	0	.....	0	.....	0	.....	0
.....	—	.....	—	.....	+	.....	.....	.....	0	.....	—	.....	—
.....	.....	.....	.....	.....	.....	.....	.....	.....	+	.....	+	.....	0
.....	0	.....	—	.....	+	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	+	.....	.....	.....	0	.....	0	.....	—
.....	0	.....	+	.....	+	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	+	.....	+	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	—
.....	.....	.....	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	0

PER ACRE PER DAY.

.....	0	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	+
.....	+	.....	+	.....	+	.....	0	.....	.....	.....	0	.....	—
.....	0	.....	0	.....	+	.....	.....	.....	.....	.....	.....	.....	+
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	+	.....	+	.....	—	.....	0	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	0	.....	0	.....	0	.....	+
.....	+	.....	+	.....	+	0	0	.....	0	.....	0	.....	0
.....	—	.....	+	.....	+	0	0	.....	0	.....	0	.....	0
.....	0	.....	—	.....	0	0	0	.....	0	.....	0	.....	0
.....	—	.....	0	.....	+	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	0
.....	—	.....	—	.....	+	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	0	0	.....	0	.....	—	.....	0
.....	0	.....	—	.....	+	0	0	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	0

*57°C–11C.

APPENDIX A—

SAND

TANK "D"—RATE 10,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Bact. Eff'cy.	Influent. 1 C.C.	Influent. 5 C.C.
1910			No.484 omit'd							
Nov. 8....	11.30	.....	495	2	77	0	4	.....	0	0
9....	10.00	.....	496	1	8	3	0	.....	0	0
10....	10.00	.....	497	186	5	9	2	.....	0	0
				63.0	30.0	4.0	2.0			

RATE 3,000,000 GALLONS

Nov. 11....	.....	5.00	498	2	0	2	2	.....	0	0
12....	12.00	.....	499	12	4	3	1	.....	0	0
14....	10.00	.....	500	2	2	5	0	.....	0	0
15....	11.00	.....	501	0	0	2	1	.....	0	0
16....	12.00	.....	502	0	0	1	0	.....	0	0
17....	.....	5.00	503	0	4	0	3	.....	0	0
18....	11.30	.....	504	3	6	1	13	.....	0	0
19....	10.30	.....	506	0	23	1	0	.....	0	0
21....	.....	5.00	507	5	6	1	2	.....	0	0
22....	10.00	.....	508	8	2	8	0	.....	0	0
23....	.....	4.00	509	6	1	29	0	.....	0	0
24....	.....	5.00	510	1	0	1	0	.....	0	0
25....	10.30	.....	511	9	2	0	3	.....	0	0
26....	.....	1.00	512	5	1	4	0	.....	0	0
28....	10.00	.....	513	—	—	1	2	.....	0	0
29....	10.00	.....	514	—	—	11	1	.....	0	0
29....	10.00	.....	stop	3.7	3.64	4.37	1.75			
Dec. 2....	.....	5.00	515	2	4	2	1	.....	0	0
3....	12.30		516	14	1	9	0	.....	0	0
5....	.....	4.00	517	16	1	10	0	.....	0	0
6....	10.00	.....	518	22	0	6	0	.....	0	0
7....	.....	4.00	519	7	1	2	1	.....	0	0
8....	3.30	.....	520	56	1	4	2	.....	0	0
9....	.....	4.30	521	15	1	4	0	.....	.....	.....
10....	11.30	.....	522	100	0	—	—	.....	.....	.....
14....	.....	3.00	523	32	1	2	0	.....	0	0
15....	.....	5.30	524	22	1	5	1	.....	0	0
16....	.....	5.00	525	13	1	1	0	.....	0	0
16....	.....	5.00	stop	27.1	1.09	4.5	.5			
cleaned started Dec. 17										
19....	.....	3.00	526	45	0	2	0	.....	0	+
22....	.....	4.00	527	53	0	0	0	.....	0	0
27....	.....	4.00	528	50	2	—	1	.....	0	0
30....	.....	4.00	529	458	6	6	0	.....	0	0
Jan. 3....	.....	5.00	530	0	1	2	0	.....	+	0
				121.2	1.8	2.5	.2			

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
.....	0	.....	0	.....	0	0	0	.....	0	0	.....	.....	0
.....	0	.... :	0	.....	—	0	0	.....	0	0	.....	.....	0
.....	0	.....	0	.....	+	0	0	.....	0	.....	—	.....	—

PER ACRE PER DAY.

.....	0	.....	0	.....	0	0	0	.....	0	.....	—	.....	+
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	0	0	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	....—	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	+
—	.....	.....	—	.....	+	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	....—	0	.....	.....	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	0	.....	—	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	+	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	+	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0
.....	+	.....	+	.....	+	.....	.....	.....	0	.....	0	.....	—
.....	0	.....	0	.....	0	.....	.....	.....	0	.....	0	.....	0

APPENDIX B.

APPENDIX B—
SAND

EXPERIMENTAL STATION. TANK A—RATE 5,000,000

Date	Hour A.M.	Hour P.M.	Serial No.	Bacterial Counts 18°-22°C Inf.	18°-22°C Eff.	37.5°C Inf.	37.5°C Eff.*	Influent. .001 C.C.	Influent. .005 C.C.
1911									
March 23.....	.....	5.00	1	2,400	21[2]	3,100	18[3]	.....	.....
24.....	.....	5.00	Stop						
25.....	11.00	Cleaned	by scraping						
	12.45	.....	Start	.....	.....	.....	.....	.....	.....
	.....	1.00	2	14,000	950	2,320	120	.....	.....
27.....	.....	5.00	3	880	.....	.....	460	.....	.....
28.....	10.00	.....	4	16,000	3,170	45	252	.....	.....
28.....	.....	5.00	5	7,000[740]	6,000[10]	2,600[320]	210[40]	.....	.....
29.....	10.00	.....	6	243	1,240[0]	30[0]	35[6]	.....	.....
	.....	5.00	7	30,000[3,200]	3,700	3,600[340]	14[0]	.....	.....
30.....	10.00	.....	8	260	3,200	35[0]	30	.....	.....
	.....	5.00	9	8,000[600]	8,800	5,600[1,120]	121[7]	.....	.....
31.....	10.00	.....	10	9,000	9,200	2,000[220]	94[3]	.....	.....
	.....	5.00	11	8,500[1,300]	6,000	3,850[1,300]	880[21]	0	.....
April 1.....	10.00	.....	12	7,800	2,400	3,950	440[10]	0	.....
4.....	.....	5.00	13	13,000[900]	70	4.500[1,300]	16[0]	00	.....
5.....	10.00	.....	14	8,800	10	2,600[550]	6	0+	.....
	.....	5.00	Stop	9,500	3,730	2,760	206		
6.....	.....	4.00	Start	Cleaned	by scraping				
6.....	.....	4.00	.....	7,200[600]	100	2,600	27[1]	.....	.....
	.....	4.08	.....	.....	14	.....	.....	.....	.....
	.....	4.15	.....	.....	33[1]	.....	22	.....	.....
	.....	4.20	.....	.....	68[2]	.....	35[1]	.....	.....
	.....	4.30	.....	.....	250[9]	.....	90[4]	.....	.....
7.....	10.00	.....	17	5,100[600]	63[1]	3,500[800]	15[1]	0	—+
	.....	5.00	18	14,100	50[8]	1,800	16[0]	0	0—
8.....	.....	1.50	19	7,000	114	2,000	21[0]	0	++
10.....	11.30	.....	20	5,000[900]	12[1]	1,560[400]	2[0]	0	++
	.....	5.00	21	12,000[1,800]	20[0]	6,300[1,500]	12	0	—+
11.....	11.00	.....	22	28,000	53	3,700[800]	3[0]	+	.....
	.....	5.00	23	29,000	36	6,200[2,200]	.....	0	.....

*Small figures Red Colonies on Litmus Lactose Agar.

Continued.
FILTERS.
GALS. PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	1.5 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	.01 C.C.	.10 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	0	0	0	.....	.....	+	+	+	.....	+	+
.....	.....	.....	0	0	0	.....	.....	+	+	+	.....	+	+
+	.....	+	+	+	.....	0	—	+	+	+	+	.....	.....
.....	.....	.....	0	0	0	0	0	+	+	+	+	.....	+
+	.....	+	+	.....	+	0	0	+	+	+	+	.....	.....
.....	.....	.....	0	0	0	0	0	+	+	+	+	.....	+
+	.....	++	+	+	+	00	0	+	+	.....	.....	.....	.....
0+	.....	+	+	+	+	.....	+	+	+	+	.....	.....	.....
0+	.....	+	+	.....	.....	.....	0+	+	+	+	.....	.....	.....
++	.....	+	+	.....	.....	.....	0+	0	+	.....	.....	.....	.....
++	.....	.....	.....	.....	.....	.....	00	0	0	+	.....	.....	.....
—+	.....	.....	.....	.....	.....	.....	00	0	—	0	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	0	—	0	+	.....	+	.....
0	.....	.....	.....	.....	.....	0	0+	+	+	+	+	.....	.....
.....	.....	.....	.....	.....	.....	.....	0	G —	G —	+	+	.....	.....
.....	.....	.....	.....	.....	.....	.....	0	G —	0	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	0	0	0	0	.....	.....	.....
++	.....	.....	.....	.....	.....	.....	0	0	+	+	.....	+	.....
++	.....	.....	.....	.....	.....	.....	0	0	0	+	.....	0	.....

+Positive reaction. —Doubtful or partial reaction. 0 No reaction at all.

APPENDIX B—
SAND

EXPERIMENTAL STATION. TANK "A"—RATE 5,000,000 GALLONS

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .005 C.C.
1911				3,400		800			
April 12	10.00	.....	24	18,000	17	3,900	3	0	.....
	.....	5.00	25	13,600	42	3,100	5	.....	.....
13	.....	5.00	26	11,400	9	3,500	2	.....	0
15	10.00	.....	27	19,000	8	4,700	2	.....	00
	.....	1.00	28	8,800	3	4,400	1	.....	00
			stop	13,720	53	3,640	17		
17	10.00	.....	29	.....	13	3,000	0	.....	0+*
	.....	1.00	30	40,000	36	7,300	3	.....	00
	.....	5.00	31	10,400	17	1,900	3	.....	00
18	10.00	.....	32	16,500	6	2,800	4	.....	00
	.....	1.00	33	14,000	6	3,400	4	.....	0
	.....	5.00	34	5,000	40	2,300	3	.....	0
19	10.00	.....	35	32,700	16	5,900	3	.....	.....
	.....	1.00	36	26,400	10	8,400	5	.....	0
	.....	3.00	cleaned	20,720	18	4,250	3		
	.....	5.00	37	15,300	200	9,000	15	.....	00
20	9.30	.....	started	.....	.....	.....	.....	.....	.....
	10.30	.....	38	30,000	277	8,200	6	.....	.....
	.....	5.00	39	8,200	240	2,400	15	.....	0
21	10.00	.....	40	2,600	400	170	6	.....	0
	.....	2.00	41	10,200	420	1,000	8	.....	00
	.....	5.00	42	13,800	270	2,000	7	.....	0
22	10.00	.....	43	8,200	54	2,300	12	.....	+
	.....	2.30	44	6,100	24	5,100	14	.....	0
24	10.00	.....	45	2,400	10	440	8	.....	.....
	10.00	.....	stop	10,200	212	2,710	9.5	.....	.....
	.....	2.30	46	2,400	13	180	3	.....	.....
April 24	.....	5.00	47	580	23	74	8	.....	.....
25	10.00	.....	48	500	20	36	7	.....	.....
	.....	1.00	49	.....	21	.....	0	.....	.....
25	.....	3.00	cleaned	1,160	19	97.	4.5	.....	.....
26	10.00	.....	started						
	10.00	.....	50	.....	.....	.....	10	.....	.....
	11.30	.....	51	100	42	30	6	.....	.....
	.....	5.00	52	116	32	13	7	.....	.....
27	10.00	.....	53	212	14	27	10	.....	.....
	.....	1.30	54	170	7	25	6	.....	.....
	.....	5.00	55	124	7	11	5	.....	.....
28	10.00	.....	Head in	orifice	Box 3 in	ches			
	10.30	.....	56	268	12	30	7	.....	.....
	.....	2.30	57	210	8	40	4	.....	.....
	.....	5.00	58	3,000	13	400	9	0	0
29	10.30	.....	59	12,000	13	4,000	4	0	0
	.....	1.00	60	7,600	14	1,500	.....	0	0
May 1	10.00	.....	stop	2,380	16.2	607.	6.8		

*More than one fermentation tube used.

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	.01 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
								0	0	0		0	
0—								0	0	0		+	
0+								0	0	0		0	—
0+								0	0	0		0	+
++								0	0	0		+	+
0+								0	0	0		+	+
++									0	0		0	+0
++								0	0	0		0	0
++								0	0	0		0	0
00								0	0	0		+	+
0+								0	0	0		0	0
0+								0	0	+		+	
0+										+		+	+
++									+	+		..	+
—									+	+		+	+
0—	+							0	0	+	+	+	
0—	+							—	+	+	+	+	
0+	+							0	+	+	+	+	+
++	+						0	0	+	+	+	+	+
		0	—	+	+		0	0	+	+	+	+	+
		0	+	+	+			0	—	0		+	+
.01	.05	.1	1.0	5	10	.01	.10	1.0	5	10	20	35	50
		0	0	0	+			0	0	0		0	+
	0	0	00	0	0			0	0	0	0	0	+
										0		0	+
	0		0	0	0					+	+	+	+
										+	+	+	+
										0		+	+0
										0		+	+0
										0		—	++
										0		+	++
								0	0	0		0	00
								0	—0	0			
00	0	+	+	+	+			0	0	0		0	00
00	+	+	+					0	0	0		0	+
—0	+	+	+					0	0	0		0	00

APPENDIX B—

SAND

TANK "A"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .005 C.C.
1911									
May 1.....	10.00	.....	61	2,700	17	1,400	5	.....	.....
.....	.....	1.00	62	9,500	4	2,500	4	0	+
.....	.....	4.00	63	6,000	7	4,400	5	0	0
2.....	10.00	.....	64	6,400	15	3,700	6	0	0
.....	.....	4.00	65	5,600	13	4,200	6	.....	.....
3.....	10.30	.....	66	1,660	13	230	6	.....	.....
	1.00	.....	cleaned,	bottom	drained	afterwa	rds filled	from	"B."
4.....	11.45	.....	started	5,310	11.5	2,740	5.		
	11.45	.....	67	550	16	90	6	0	0
.....	.....	5.00	68	800	10	80	0	0	0
5.....	12.00	.....	69	209	25	6	3	.....	.....
.....	.....	5.00	70	200	20	.....	13	.....	.....
6.....	10.00	.....	71	1,260	8	.....	4	.....	.....
.....	.....	12.00	72	1,100	18	13	0	.....	.....
8.....	10.00	.....	73	700	24	.....	1	.....	.....
.....	.....	1.00	74	500	11	.....	2	.....	.....
.....	.....	4.00	75	.....	.....	.....	.....	.....	.....
.....	.....	5.00	76	1,800	10	.....	1	.....	.....
9.....	10.00	.....	77	14,300	23	1,620	3	.....	0
.....	.....	2.30	78	13,700	9	2,100	2	.....	0
.....	.....	5.00	79	14,700	14	2,050	5	0	0
10.....	12.00	.....	80	4,900	14	550	5	0	0
.....	.....	5.00	81	27,000	12	14,000	9	0	0
11.....	10.00	.....	82	13,000	10	3,400	1	0	+
.....	.....	2.00	83	17,300	8	2,430	3	0	+
	.....	2.00	stop	7,000	14.5	2,390	3.6		
	.....	5.00	84	17,700	27	6,600	3	0	+
12.....	11.00	.....	85	26,000	80	4,300	1	—	0
	.....	4.00	cleaned	21,850	53	5,450	2		
	.....	5.00	86	110,000	85	22,000	11	0	0
13.....	9.30	.....	start						
	10.30	.....	87	39,000	16	7,100	5	+	+
	.....	2.30	88	14,400	14	5,200	7	0	0
15.....	9.30	.....	c eaning	26,700	15	6,150	6		
16.....	10.30	.....	89	28,000	240	7,000	40	0	0
	12.00	.....	Finished	cleaning					
.....	.....	2.30	90	25,000	14	6,000	9	0	0
.....	.....	4.30	91	19,000	26	2,700	10	—	—
17.....	9.00	.....	start	22,000	20	4,350	95		
	11.00	.....	92	22,000	22	1,600	4	0	+
.....	.....	2.30	93	25,000	18	3,200	2	+	+
17.....	.....	5,00	94	30,000	22	4,000	5	0	0
18.....	11.00	.....	95	27,000	14	2,200	5	0+	0

Continued.

FILTERS.

PER ACRE PER DAY,

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.05 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	.01 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
0	+	.....	.....	+	+	.....	.....	0	0	0	.....	0	+ +
+	+	+	+	.....	.....	.....	.....	0	0	0	.....	+	+
+	+	+	+	.....	.....	.....	.....	0	0	0	.....	+	0
0	—	+	.....	.....	.....	.....	.....	0	0	0	.....	0	+
+	.....	..	.....	.....	.....	.....	.....	0	0	0	.....	+	0
.....	0	0	+	+	.....	.....	.....	.....	0	0	.....	0	0
0	0	0	+	.....	.....	.....	.....	0	0	0	.....	+	+
0	0	0	+	.....	.....	.....	.....	0	0	+	.....	+	+
.....	0	0	0	0	.....	.....	.....	.....	.....	0	—	—	+
.....	.....	0	0	0	.....	.....	.....	0	0	0	.....	+	0
.....	.....	.....	.....	0	0	.....	.....	.....	.....	+	.....	0	+
.....	.....	.....	0	0	+	.....	.....	.....	0	0	.....	0	+ +
.....	.....	.....	0	0	0	.....	.....	0	0	0	.....	0	0
.....	.....	.....	0	0	0	.....	.....	0	0	0	.....	0	+
.....	.....	.....	—	+	+	.....	.....	0	0	0	.....	+	+
+	+	+	+	+	.....	.....	.....	0	+	+	.....	+	+
+	+	+	+	.....	.....	.....	.....	0	+	0	.....	+	+
+	—	+	+	.....	.....	.....	.....	0	0	+	.....	+	+
0	0	+	+	.....	.....	.....	.....	0	0	0	.....	+	0
+	+	+	+	.....	.....	.....	.....	0	0	0	.....	0	+
+	+	+	+	.....	.....	.....	.....	0	0	0	.....	0	0
+	+	+	+	.....	.....	.....	.....	0	0	0	.....	0	0
+	+	+	+	.....	.....	.....	.....	+	+	+	.....	+	+
0	0	+	+	.....	.....	.....	.....	+	+	+	.....	+	+
0	+	+	+	.....	.....	.....	.....	+	+	+	.....	+	+
+	+	+	+	.....	.....	.....	+	+	+	+	.....	+	+
+	+	+	+	.....	.....	.....	0	+	+	+	.....	+	+
+	+	+	+	.....	.....	.....	0	+	+	+	.....	.....	.....
+	+	+	+	.....	.....	.....	0	0	+	+	.....	+	+
+	+	+	+	.....	.....	.....	0	0	—	+	.....	+	+
+	+	+	+	.....	.....	.....	0	—	+	+	.....	+	+
+	+	+	+	.....	.....	.....	+	0	+	+	.....	+	+
+	+	+	+	.....	.....	.....	+	+	+	+	.....	+	+
+	+	.....	.....	.....	.....	.....	0	+	+	+	.....	+	+

APPENDIX B—

SAND

TANK "A"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date	Hour A.M.	Hour P.M.	Serial No.	Bacterial Counts. 18°-22°C Inf.	18°-22°C Eff.	37.5°C Inf.	37.5°C Eff.	.001 C.C.	.002 C.C.
1911									
	.....	2.00	96	19,000	24	4,000	15	+0	—
May 19.....	10.30	.....	97	28,500	32	4,800	4	0	0
	.....	1.30	98	26,500	16	7,300	8	0	+
	.....	5.00	stop	25,428	21.1	3,871	6.1		
	.....	5.00	99	.....	26	7,000	5	0	0
20.....	10.00	.....	100	150,000	200	38,000	17	—	0
	.....	1.00	101	100,000	28	35,000	5	0	0
22.....	.....	2.00	102	18,000	48	4,200	2	0	0
	.....	3.00	cleaned	8,9333	75.5	2,105	7.2		
	.....	5.00	103	24,000	1360	6,400	77	0	0
23.....	10.00	.....	104	31,400	90	7,900	11	0	0
	.....	1.15	start	27,700	1,450	7,150	44		
	.....	1.15	105	31,000	122	13,500	10	0	0
	.....	1.20	106	.....	90	.....	.....	.....	.....
	.....	1.35	107	.....	105	.....	24	.....	.....
	.....	1.45	108	.....	90	.....	27	.....	.....
	.....	1.55	109	.....	87	.....	26	.....	.....
	.....	2.15	110	.....	142	.....	45	.....	.....
	.....	2.30	111	.....	114	.....	40	.....	.....
	.....	3.30	112	.....	146	.....	22	.....	.....
	.....	4.30	113	.....	180	.....	77	.....	.....
	.....	5.00	114	41,000	152	4,600	22	+	+
	.....	5.00	stopover 36 hours	36,000	122.8	9,050	32.7		
25.....	10.00	.....	start						
	10.00	.....	115	280,000	45	36,000	4	—	—
	.....	2.00	116	53,200	480	8,000	44	0	0
	.....	5.00	117	90,000	152	15,000	11	+	+
26.....	10.30	.....	118	10,800	85	900	26	0	0
	.....	1.30	119	13,400	31	3,600	23	0	+
	.....	5.00	120	10,000	35	3,000	8	0	0
27.....	10.00	.....	121	15,500	20	2,200	8	0	0
	.....	12.00	122	20,000	26	7,300	13	0	0
	.....	12.00	stop	61,612	109.2	9,500	17.1		
29.....	10.00	.....	123	150,000	8	7,000	0	0	0
	12.00	.....	124	84,000	13	8,600	4	0	0
	12.00	.....	start	117,000	10.5	7,800	2		
31.....	10.00	.....	125	13,400	84	2,400	28	0	0
	.....	1.30	126	120,000	76	10,700	34	0	+
	.....	5.00	127	.....	40	.....	18	0	0
June 1.....	10.00	.....	128	60,000	37	9,600	14	0	0
	.....	1.00	129	50,000	70	9,700	7	0	0
	.....	4.00	130	22,000	64	10,300	12	0	0
2.....	10.00	.....	131	28,000	24	8,000	2	0	0

Continued.

FILTERS.

PER ACRE PER DAY

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	.01 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
+	+	.....	.....	.....	.....	.....	+	+	+	+	.....	+	+
+	+	.....	.....	.....	.....	.....	0	0+	+	+	.....	.....	.....
+	+	.....	.....	.....	.....	.....	0	0	+	+	.....	+	.....
+	+	.....	.....	.....	.....	.....	0	0	0	+	+	+	.....
+	+	.....	.....	.....	.....	.....	0	+	+	+	+	.....	.....
+	+	.....	.....	.....	.....	.....	.....	0	+	+	+	+	.....
0	0	.....	.....	.....	.....	.....	0	0	0	+	+	.....	+
+	+	.....	.....	.....	.....	.....	+	+	+	.....	+	+	.....
+	+	.....	.....	.....	.....	0 2	0	0	+	+	.....	+	+
+	+	.....	.....	.....	.....	.....	.....	+	+	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	—	+	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	+	+	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	+	+	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	0	—	—	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	+	+	+	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	0	—	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	0	+	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	0	+	+	.....	+	+
+	+	.....	.....	.....	.....	.....	.....	0	+	+	.....	+	+
+	+	+	.....	.....	.....	.....	.....	0	+	+	.....	+	+
—	+	+	.....	.....	.....	0	0	+	+	+	.....	+	.....
+	+	+	.....	.....	.....	0	0	0	+	+	+	+	.....
0	0	0	.....	.....	.....	0	0	0	+	+	.....	+	+
+	—	.....	.....	.....	.....	0	0	0	+	+	.....	+	.....
+	—	.....	.....	.....	.....	0	0	0	+	+	.....	+	.....
+	0	.....	.....	.....	.....	0	0	0	0	+	.....	+	.....
+	+	.....	.....	.....	.....	0	0	0	—	+	.....	+	.....
+	+	.....	.....	.....	.....	.....	.....	0	0	-	0	.....	+
—	+	.....	.....	.....	.....	0	0	0	0	0	0	.....	+
+	+	.....	.....	.....	.....	.....	0	—	+	+	+	.....	.....
+	+	.....	.....	.....	.....	.....	0	—	+	+	+	.....	.....
0	0	.....	.....	.....	.....	.....	0	—	—	+	+	+	.....
0	+	.....	.....	.....	.....	0	0	0	+	.....	+	.....	.....
+	+	.....	.....	.....	.....	.....	0	+	+	.....	+	.....	.....
+	+	.....	.....	.....	.....	.....	.....	+	+	.....	+	.....	.....
+	+	.....	.....	.....	.....	.....	0	+	+	+	.....	.....	.....

APPENDIX B—

SAND

TANK "A."—5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .002 C.C.
1911									
June 2.....	.....	2.30	132	19,000	23	3,300	4	0	0
	.....	5.00	133	300	34	400	6	0	0
3.....	10.00	.....	134	45,000	17	6,000	6	0	0
	.....	1.00	135	38,000	12	5,800	6	0	0
5.....	10.00	.....	stop	39,570	43.7	6,620	12.4		
	.....	2.30	start						
	.....	2.30	136	92,000	11	15,400	5	0	0
6.....	10.00	.....	stop						
	11.00	.....	137	9,000	79	1,850	40	.....	.....
	.....	1.00	138	12,000	105	2,400	63	.....	.....
7.....	10.00	.....	139	1,500	15	90	5	.....	.....
	.....	1.30	140	2,400	17	2,400	10		0
	.....	5.00	141	2,400	7	900	3	.....	.....
8.....	10.00	.....	142	3,000	8	120	3	.....	.....
	11.00	drained f	rom bot-tom	5,050	37	1,295	20.6		
		3.00	cleaned						
	.....	5.00	143	500	166	93	50	.....	.....
9.....	.....	1.30	144	700	65	——	3	.....	.....
10.....	10.00	.....	start	600	115.5	93	26.5	.....	.....
	10.00	.....	145	1,296	8	15	4	.....	.....
	.....	1.00	146	1,160	26	2	5	.....	.....
	.....	1.00	stop	1,228	17	8.5	4.5	.....	.....
11.....	10.30	.....	start						
12.....	10.30	.....	147	1,000	23	185	3	.....	.....
	.....	1.00	148	830	21	64	9	.....	.....
	.....	4.00	149	190	18	18	4	.....	.....
13.....	10.00	.....	150	400	14	17	9	.....	.....
	.....	12.00	151	280	14	18	6	.....	.....
	.....	4.00	152	112	8	7	6	.....	.....
14.....	11.00	.....	153	1,500	12	128	1	.....	.....
	.....	2.30	154	13,500	15	1,600	15	.....	.....
	.....	5.00	155	8,000	80	1,300	18	.....	.....
15.....	11.00	.....	156	15,000	50	4,600	25	—	0
	.....	1.00	157	12,500	44	3,500	23	0	0
	.....	4.00	158	7,500	43	1,420	13	0	0
16.....	10.00	.....	159	12,000	40	580	3	.....	.....
	.....	1.00	160	5,700	38	900	11	0	0
	.....	5.00	161	13,500	58	2,200	12	.....	0
17.....	10.00	.....	162	3,000	11	300	2	.....	.....
	12.00	.....	stop	5,937	30.5	1,052	10		
19.....	11.00	.....	163	14,000	7	600	6	0	0
20.....	10.00	.....	164	12,000	570	4,500	155	.....	0
	12.00	.....	165	9,000	1,040	12,000	85	0	0
	.....	3.00	166	25,000	1,000	7,500	86	0	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
—	—	.....	.....	.....	.....	.....	0	+	+	+	+	.....	.....
0	0	.....	.....	.....	.....	.....	0	+	+	+	.....	+	.....
+	+	.....	.....	.....	.....	0	0	0	+	+	+	.....	.....
+	0	.....	.....	.....	.....	0	0	0	0	+	.....	.....	.....
+	+	.....	.....	.....	.....	.....	0	0	0	+	+	+	.....
.....	0	+	+	+	+	.....	.....	—	—	+	+	.....	+
.....	0	+	+	+	+	0	+	+	+	+	+	.....	.....
.....	.....	0	—	—	+	0	0	-	+	.....	+	.....	.....
+	+	+	.....	.....	.....	0	—	+	+	+	+	.....	.....
.....	0	0	0	+	+	0	+	+	+	+	.....	.....	.....
.....	0	0	+	+	+	.....	0	—	+	+	+	.....	.....
.....	0	0	—	0	+	.....	0	0	+	+	+	.....	.....
.....	.....	.....	0	—	+	.....	0	0	+	+	+	.....	.....
.....	.....	.....	0	0	0	.....	0	0	0	+	.....	+	+
.....	.....	.....	0	0	+	.....	+	+	+	.....	.....	+	+
.....	.....	.....	0	0	+	.....	.....	0	+	+	.....	+	+
.....	.....	.....	0	0	0	.....	.....	—	+	+	.....	+	+
.....	.....	.....	0	—	+	.....	.....	0	+	+	.....	0	0
.....	.....	.....	0	0	0	.....	.....	0	+	+	.....	+	+
.....	.....	.....	0	—	+	.....	.....	0	—	+	.....	+	+
.....	.....	.....	0	0	0	.....	.....	+	+	+	.....	+	+
0	0	+	.....	+	+	.....	0	0	0	+	.....	+	.....
0	+	+	.....	.....	.....	0	0	+	+	+	.....	.....	.....
0	0	0	.....	.....	.....	0	0	—	+	+	+	.....	.....
+	+	+	.....	.....	.....	0	0	0	+	+	+	.....	.....
0	0	+	.....	.....	.....	0	0	+	+	+	.....	.....	.....
0	0	+	.....	.....	.....	0	0	+	+	+	.....	.....	.....
0	0	+	.....	.....	.....	0	0	0	+	+	.....	+	.....
0	0	.....	.....	.....	.....	0	0	—	+	+	.....	+	.....
0	+	+	.....	.....	.....	0	0	+	+	+	.....	.....	.....
0	0	+	+	.....	.....	0	0	0	+	+	.....	.....	.....
0	0	.....	.....	.....	.....	0	0	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	0	+	+	+	+	.....	.....	.....
+	+	+	+	.....	.....	0	—	+	+	+	.....	.....	.....
+	+	+	+	.....	.....	0	0	+	+	+	.....	.....	.....

APPENDIX B—

SAND

TANK "A"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .002 C.C.
1911									
June 21	10.30	.....	167	20,000	900	2,350	26	.....	.....
	.....	2.00	168	7,300	270	1,170	30	.....	.....
	3.00	raked &	started	14,550	631.1	4,686.7	64.7	.....	.....
	.....	5.00	168	15,300	200	2,000	32	.....	.....
22	.....	.....	stop						
23	11.00	.....	start						
24	11.00	.....	stop						
26	10.30	.....	start						
	10.30	.....	169	11,400	12	3,200	2	.....	0
	.....	2.00	170	18,000	115	6,000	40	.....	.....
	.....	4.30	171	11,500	62	3,800	28	.....	.....
27	10.00	.....	172	27,000	200	6,500	40	.....	.....
	.....	3.00	173	12,500	136	4,000	43	.....	.....
28	11.00	.....	174	18,000	42	8,500	.....	.....	+
	12.00	.....	175	22,600	43	9,300	.....	.....	0
	.....	2.00	176	30,000	54	18,500	11	.....	0
	.....	2.00	stop.						
		filter not	cleaned	18,875	83	7,475	27.3		
29	10.00	.....	start						
	10.30	.....	177	300,000	57	6,000	7	+	+
	.....	2.30	178	200,000	200	7,000	23	.....	+
	.....	3.30	179	300,000	130	5,100	11	+	+
30	10.00	.....	180	120,000	74	6,000	8	+	+
	10.00	.....	stop	230,000	115.2	6,025	12.2		
	12.00	.....	181	88,000	.....	3,100	4	+	+
July 3	10.00	.....	182	90,000	10	650	3	0	0
	12.00	.....	183	300	54	5,000	10	0	0
	.....	5.00	184	300	42	600	25		
				44,650	35.3	2,337.5	10.5		
	.....	5.00	raked						
4	10.00	.....	start						
	12.30	.....	185	7,300	93	1,000	72	.....	.....
	.....	4.00	186	1,200	51	600	22	.....	.....
5	10.00	.....	187	1,600	51	100	13	0	0
	.....	1.00	188	1,300	40	150	13	0	0
	.....	5.00	189	7,600	46	3,500	21	0	0
6	10.00	.....	stop	3,800	56.2	1,070	28.2		
	.....	1.00	start						
	.....	1.00	190	850	26	300	12	0	0
	.....	2.00	191	2,300	55	1,200	10	0	0
	.....	5.00	192	2,400	78	100	24	0	0
7	10.00	.....	193	1,340	35	380	14	0	0
	.....	2.00	194	2,700	50	930	16	0	0
	.....	5.00	stop	1,918	48.8	582	15.2		
10	.....	1.00	195	8,100	2	1,840	1	0	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
0	0	+	.....	.....	.....	0	0	+	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	0	+	+	+	.....	0	+	+	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
—	+	+	.....	.....	.....	0	0	0	0	+	.....	.....	.....
+	+	+	.....	.....	.....	0	+	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	0	0	+	+	+	.....	.....	.....
—	+	+	.....	.....	.....	+	+	0+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	.....	0	+	+	+	.....	.....	.....
0	+	+	.....	.....	.....	0	0	—	+	+	.....	.....	.....
+	+	+	.....	.....	.....	0	0	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	+	0	+	+	.....	.....	.....	.....
+	0	+	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
0	+	+	.....	.....	.....	0	0	0	0	+	.....	.....	.....
0	0	.....	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	0	0	.....	.....	.....	0	0	0	+	.....	.....	.....	.....
0	0	0	.....	.....	.....	0	0	—	+	.....	.....	.....	.....
0	+	0	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
0	0	0	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
0	0	0	.....	.....	.....	+	+	+	+	.....	.....	.....	.....
0	0	0	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	0	0	—	+	.....	.....	.....	.....
+	+	+	+	.....	.....	0	0	0	+	+	.....	.....	.....

APPENDIX B—

SAND

TANK A—RATE, 5,000,000

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .002 C.C.
1911									
July 11.....	12.00	.....	197	1,740	1,400	300	560	0	0
.....	.....	5.00	198	.....	.....	1,500	800	.....	.....
12.....	10.00	.....	199	1,200	6,000	25	400	.....	.....
	10.00	.....	start	3,680	2,467	916.2	440.2		
	.....	1.00	.....	300	2,500	5	300	.....	.....
	.....	5.00	.....	70	30	7	20	.....	.....
13.....	10.00	.....	200	20	150	24	19	.....	.....
	10.00	.....	stop	130	983	12	113	.....	.....
		2.00	raked						

RATE CHANGED TO 10,000,000

14.....	10.30	.....	start						
	10.30	.....	201	6,000	200	3,500	25	.....	.....
	10.45	.....	202	.....	.....	.....	43	.....	.....
	10.55	.....	203	.....	.....	.....	60	.....	.....
	11.05	.....	204	.....	.....	.....	88	.....	.....
	11.15	.....	205	.....	.....	.....	88	.....	.....
	11.30	.....	206	.....	.....	.....	54	.....	.....
	11.45	.....	207	.....	.....	.....	60	.....	.....
	12.00	.....	208	8,000	320	3,000	58	0	0
	12.30	.....	209	.....	.....	.....	82	.....	.....
	.....	1.00	210	.....	.....	.....	74	.....	.....
	.....	2.00	211	.....	.....	.....	122	.....	.....
	.....	2.30	212	.....	.....	.....	144	.....	.....
	.....	3.00	213	.....	.....	.....	138	.....	.....
	.....	5.00	214	2,400	1,000	1,400	390	.....	.....
15.....	10.00	.....	215	500	270	100	110	0	0
	.....	1.00	216	7,000	253	4,000	107	+	.....
17.....	10.00	.....	217	200	106	11	21	.....	.....
	.....	1.00	218	6,000	95	300	24	.....	.....
	.....	5.00	219	700	80	113	21	.....	.....
18.....	10.30	.....	220	40	24	4	13	.....	.....
	10.30	.....	stop	3,426.6	260.7	1,380.7	86.1		
	.....	2.00	raked						
	.....	4.00	221	282	214	1	60	.....	.....
19.....	10.00	.....	start						
	10.00	.....	222	1.300	42	370	9	.....	.....
	12.00	.....	223	4,000	54	2,600	23	.....	+
	.....	5.00	224	6,400	82	3,000	34	0	0
20.....	10.00	.....	225	10,500	60	2,340	30	0	+
20.....	.....	2.00	226	9,500	76	2,000	18	0	0
21.....	10.00	.....	227	7,500	23	1,700	16	0	.....
22.....	12.00	.....	228	900	27	500	9	0	0
	.....	1.00	229	13,500	29	7,100	8	.....	.....
24.....	10.00	.....	230	6,700	7	1,500	3	0	.....
	10.00	.....	stop	6,600	44.4	2345.5	16.6		
	12.00	.....	raked						

Continued.

FILTERS.

GALS. PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	30 C.C.	50 C.C.
0	+	+	+	.....	.....	+	+	+	+	.....	.....	.....	.....
0	.....	+	+	+	.....	+	+	+	+	.....	.....	.....	.....
0	0	0	—	—	+	0	—	+	+	.....	.....	.....	.....
0	0	0	0	.....	.....	+	+	+	+	.....	.....	.....	.....
0	0	0	.....	—	—	0	0	+	+	.....	.....	.....	.....
0	0	0	0	0	+	0	0	+	+	+	.....	.....	.....

GALLONS PER 24 HOURS.

.....	.....	.....	+	+	+	0	+0	+	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
+	+	+	+	.....	.....	0	—+	+	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	+	+	+	.....	.....	0	—+	+	.....	.....	.....	.....	.....
.....	0	0	.....	.....	.....	—	0+	+	.....	.....	.....	.....	.....
0	+	.....	.....	.....	.....	—	—+	+	.....	.....	.....	.....	.....
0	0	0	0	0	+	0	+0	+	+	.....	.....	.....	.....
0	0	0	+	+	+	0	00	+	+	.....	.....	.....	.....
.....	.....	0	+	+	+	0	00	+	+	.....	.....	.....	.....
0	0	0	0	0	0	0	0	+	+	+	.....	.....	.....
0	0	0	0	+	+	0	0	+	+	.....	.....	.....	.....
0	+	+	+	+	.....	.....	0	+	+	+	.....	.....	.....
.....	+	+	+	+	.....	.....	+	+	+	+	.....	.....	.....
+	+	+	+	.....	.....	.....	0	+	+	.....	.....	.....	.....
+	+	.....	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	0	0	—	—	.....	.....	.....	.....
+	+	+	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
0	0	0	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
+	+	.....	.....	.....	.....	.....	0	0	+	.....	.....	.....	.....

APPENDIX B—

SAND

TANK "A"—RATE 10,000,000

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .002 C.C.
1911									
July 25.....	10.00	.....	start						
	10.00	.....	231	22,400	43	9,300	6	+	+
	10.10	.....	232	.....	.....	.....	18	.....	.....
	10.20	.....	233	.....	.....	.....	23	.....	.....
	10.35	.....	234	.....	.....	.....	46	.....	.....
	11.30	.....	235	.....	.....	.....	58	.....	.....
	11.30	.....	stop, city	closed	valve	filter not	cleaned		
	.....	1.00	236	17,000	97	7,300	25	—	+
	.....	3.00	start						
	.....	5.10	237	10,000	144	2,300	68	0	0
26.....	10.00	.....	238	46,600	325	30,000	200	—	+
	.....	1.00	239	44,000	370	26,000	160	—	0
	.....	5.00	240	28,000	370	12,000	150	+	+
27.....	10.00	.....	241	13,000	200	4,000	90	+	0
	12.00	.....	242	9,700	165	2,700	40	0	+
	.....	5.00	243	7,000	100	900	30	0	0
28.....	10.00	.....	244	4,700	37	1,800	32	0	0
	10.00	.....	stop						
				20,240	185.1	9,530	67.6		
	.....	3.00	raked						
29.....	10.00	.....	start						
	10.00	.....	245	3,300	32	800	11	0	0
	.....	5.00	246	2,200	50	300	19	0	0
31.....	10.00	.....	stop	2,750	41	550	15	.....	.....
	10.00	.....	247	1,300	24	800	2	0	0
	.....	4.00	raked						
Aug. 2.....	10.20	.....	start						
	10.20	.....	248	17,000	.....	3,860	48	.....	.....
	10.30	.....	249	.....	.....	.....	60	0	0
	10.40	.....	250	.....	900	.....	.....	.....	.....
	10.55	.....	251	.....	.....	.....	270	.....	.....
	11.00	.....	252	.....	.....	.....	550	.....	.....
	11.10	.....	253	.....	.....	.....	530	.....	.....
	11.30	.....	254	.....	.....	.....	350	.....	.....
	11.45	.....	255	.....	.....	.....	375	.....	.....
	12.00	.....	256	.....	1,100	.....	130	.....	.....
	12.30	.....	257	.....	.....	.....	120	.....	.....
	.....	1.00	258	12,000	.....	2,080	38	—	—
	.....	2.00	259	.....	.....	.....	40	.....	.....
	.....	3.00	260	.....	.....	.....	21	.....	.....
	.....	3.30	261	.....	.....	.....	19	.....	.....
	.....	5.00	262	12,000	80	3,200	13	.....	0
3.....	10.00	.....	263	24,000	40	4,700	14	0	+
	.....	2.00	264	21,000	40	4,000	14	0	0
	.....	6.00	265	67,000	30	4,700	2	0	0
4.....	11.00	.....	266	72,000	30	—	13	0	+
	.....	1.00	267	42,000	19	2,200	6	0	0
	.....	4.00	268	17,000	35	3,000	3	0	0
5.....	10.00	.....	269	200,000	5	15,000	2	+	+
7.....	10.00	.....	stop	48,400	226.9	3637.7	124.7		

Continued.

FILTERS.

GALLONS PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	30 C.C.	50 C.C.
+	+	.....	.....	.....	.....	.....		+	+	.....	.....	.....	.....
+	+	.....	.....	.....	.....	.....	0	+	+	+	.....	.....	.....
+	0	.....	.....	.....	.....	0	+	+	+	+	.....	.....	.....
+	+	.....	.....	.....	.....	+	+	+	+	.....	.....	.....	.....
+	.....	.....	.....	.....	.....	—	—	+	+	.....	.....	.....	.....
+	.....	.....	.....	.....	.....	.....	+	+	+	.....	.....	.....	.....
+	.....	.....	.....	.....	.....	.....	0+	+	+	.....	.....	.....	.....
+	.....	.....	.....	.....	.....	.....	—+	+	+	.....	.....	.....	.....
0	.....	.....	.....	.....	.....	.....	0	0	+	.....	.....	.....	.....
0	0	.....	.....	.....	.....	.....	0	+	+	.....	.....	.....	.....
—	+	+	.....	.....	.....	.....	0	—	+	.....	.....	.....	.....
0	0	+	.....	.....	.....	.....	0	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	.....	0	+	+	.....	.....	.....	.....
—	+	+	.....	.....	.....	.....	—	—	+	+	.....	.....	.....
+	+	+	.....	.....	.....	.....	+0	+	+	+	.....	.....	.....
+	0	+	.....	.....	.....	.....	0	—	+	+	.....	.....	.....
+	+	+	.....	.....	.....	.....	0+	+	+	.....	.....	.....	.....
0	+	+	.....	.....	.....	.....	0+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	.....	0	—	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	.....	0	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	.....	0	—	+	.....	.....	.....	.....
0	0	+	.....	.....	.....	.....	0	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	.....	0	0	+	.....	.....	.....	.....

APPENDIX B—

SAND

TANK "A"—RATE 10,000,000

EXPERIMENTAL STATION.

Date.	Hour.		Serial No.	Bacterial Counts.					
				18°–22°C.		37.5°C.		Influent.	
	A.M.	P.M		Inf.	Eff.	Inf.	Eff.	.001 C.C.	.002 C.C.
1911									
Aug. 9.....	.....	4.00	cleaned	scraped					
10.....	11.10	.....	start						
10.....	11.10	.....	270	30,000	63	10,000	1	.....	.....
	11.20	.....	271	.....	.....	.....	4	.....	.....
	11.30	.....	272	.....	.....	.....	1	.....	.....
	11.40	.....	273	.....	.....	.....	10	.....	.....
	11.50	.....	274	.....	.....	.....	58	.....	.....
	12.00	.....	275	30,000	260	10,000	80	.....	0
	12.15	.....	276	.....	.....	.....	81	.....	.....
	12.30	.....	277	.....	.....	.....	100	.....	.....
	12.45	.....	278	.....	.....	.....	110	.....	.....
	.....	1.30	279	.....	.....	.....	112	.....	.....
	.....	2.00	280	.....	.....	.....	110	.....	.....
	.....	2.30	281	.....	.....	.....	80	.....	.....
	.....	2.20	282	.....	.....	.....	66	.....	.....
	.....	4.30	283	7,500	320	3,300	50	.....	0
11.....	10.00	.....	284	12,000	280	2,000	115		0
				16,875	230.7	6,325	65.2		

Continued.

FILTERS.

GALLONS PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	30 C.C.	50 C.C.
—	+	+	+	.....	.....	.....	0	0	+	+	.....	.....	.....
—	+	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	+	0	.....	.....	.....	.....	0	+	+	.....	.....	.....	.....
0	+	+	.....	.....	.....	++	+	+	+	.....	.....	.....	.....

APPENDIX B—
SAND
TANK "B"—RATE 5,000,000

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .01 C.C.
1911									
March 23	.....	5.00	1	2,400	1,660	3,100	250 (20)	.....	.....
25	1.00	.....	2	14,000	heavy	2,320	280	.....	.....
27	.....	5.00	3	880	.....	.....	1,340	.....	.....
28	10.00	.....	4	16,000	6,000	45	970	.....	.....
28	.....	4.30	stop	10,320	3,830	1,822	720		
	.....	5.00	5	7,000 (740)	.....	2,600 (320)	300 (0)	.....	0+
29	10.00	.....	6	243	.....	30 (0)	34 (4)		
	110.0	.....cleaned, 1st cleaning for the quartz sand filter, top hard and							
	.....	4.00	start						
	.....	5.00	7	30,000 (3200)	.....	3,600 (340)	160 (68)		+
30	10.00	.....	8	260	4,300 (0)	35 (0)	150 (10)	.....	.....
	.....	5.00	9	8,000 (600)	3,000	5,600 (1120)	150 (24)	.....	+
31	10.00	.....	10	9,000	46,500	2,000	.....	.....	0+
	.....	5.00	11	8,500 (1300)	35,500	3,850 (1300)	900 (62)	0	0+
April 1	10.00	.....	12	7,800	46,400	3,950	1,410 (45)	0	++
	.....	5.00	.....	.....	.....	.....	.....	.....	.....
4	.....	5.00	13	13,300 (900)	3,000	4,500 (1300)	112 (42)	00	++
5	10.00	.....	14	8,800	730	2,600 (550)	50 (11)	0+	—+
	.....	5.00	stop	10,707	19,918	3,267	417		
6	.....	4.00	start; cleaned by scraping						
	.....	4.00	15	7,200 (600)	51	2,600	11	.....	.....
	.....	4.08	16	.....	16	.....	22	.....	.....
	.....	4.15	16	.....	77 (4)	.....	49 (2)	.....	.....
	.....	4.20	16	.....	134 (5)	.....	90 (2)	.....	.....
	.....	4.30	16	.....	141 (1)	.....	45 (2)	.....	.....
7	10.30	.....	17	5,100 (600)	.....	3,500 (800)	36 (8)	0	—+
	.....	5.00	18	14,100	470 (13)	1,800	47 (15)	0	—0
8	.....	1.00	19	7,000	3,000	2,000	66	0	++
10	11.30	.....	20	5,000 (900)	2,900	1,560 (400)	6	0	++
10	.....	5.00	21	12,000 (1800)	320 (14)	6,300 (1500)	50 (3)	0	—+
11	11.00	.....	22	28,000	1.680	3,700 (800)	35 (0)	+	++

Small figures Red Colonies on Litmus Lactos Agar.

Continued.

FILTERS.

GALLONS PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.1 C.C.	1 C.C.	5 C.C.	10 C.C.	30 C.C.	50 C.C.	.01 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	0	0	0	0	+	.....	.....	—	—	+	.....	+	+
.....	0	0	0	0	+	.....	.....	—	+	+	.....	+	+
+	+	+	.....	.....	.....	0	0	+	+	+	+	.....	.....
.....	.....	.....	.....	.....	.....	0	0	+	.....	+	.....	.....	+
firm with water out													
+	+	.....	+	+	+	—	+	+	.....	+	+	.....	.....
.....	0	0	0	+	+	0	+	+	+	+	+	.....	.....
++	+	+	+	+	+	0	++	+	+	.....	.....	.....	.....
+	+	+	+	.....	.....	.....	+	+	+	.....	.....	.....	.....
+	+	.....	.....	.....	.....	.....	++	+	+	+	+	.....	.....
+	.....	.....	.....	.....	.....	.....	++	+	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	—+	+	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	00	+	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	+	+	.....	+	.....
0	+	+	.....	.....	.....	.....	—0	—	—	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	+—	—	—	+	+	.....	.....
.....	.....	.....	.....	.....	.....	.....	0	+	.....	+	.....	+	.....
.....	.....	.....	.....	.....	.....	.....	0	+	+	+	.....	+	.....
.....	.....	.....	.....	.....	.....	.....	0	+	+	+	.....	.....	.....

APPENDIX B—

SAND

TANK B.—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .01 C.C.
1911									
	.....	5.00	23	29,000	.....	2200 6,200	.....	0	++
April 12.....	11.00	.....	24	3400 18,000	1,500	3,900	800 40	0	00
	.....	5.30	25	13,600	1,800	3,100	40	.....	.....
13.....	.....	5.30	26	11,400	370	3,500	30	0	—0
15.....	10.00	.....	27	19,000	470	4,700	34	00	0+
	.....	1.00	stop	14,250	1,265	3,572	40		
	.....	1.00	28	8,800	670	4,400	23	00	0+
17.....	10.00	.....	29	.....	86	3,000	17	0+	++
	.....	1.00	30	40,000	96	7,300	8	00	0+
	.....	5.00	31	10,400	225	1,900	8	00	++
18.....	10.00	.....	32	16,500	13	2,800	11	00	++
	.....	1.00	33	14,000	15	3,400	15	0	++
	.....	5.00	34	5,000	26	3,400	10	0	00
19.....	10.00	.....	35	32,700	250	5,900	9	.....	0+
	12.00	.....	cleaned	18,200	173	4,012	13		
	.....	1.00	36	26,400	2,600	8,400	10	0	0+
	.....	4.00	stop						
	.....	5.00	37	15,300	87	9,000	38	00 .001	0+ .005
20.....	10.00	.....	38	30,000	240	8,200	22	.....	0
	.....	5.00	39	8,200	370	2,400	22	0	0
21.....	10.00	.....	40	2,600	110	170	10	0	.....
	.....	2.00	41	10,200	100	1,000	13	00	0
	.....	5.00	42	13,800	216	2,000	7	0	0
22.....	10.00	.....	43	8,200	130	2,300	.....	+	—
	10.00	.....	stop	12,614	179	3,581	18.7		
	.....	2.30	44	6,100	50	5,100	20	0	0
24.....	10.00	.....	45	2,400	22	440	10	.....	.....
24.....	.....	2.30	46	2,400	33	180	4	.....	.....
	.....	5.00	47	580	88	74	5	.....	.....
25.....	10.00	.....	48	500	57	36	4	.....	.....
	.....	1.00	49	.....	114	—	8	.....	.....
	.....	4.00	cleaned	2,396	60.5	1,166	8.5		
26.....	10.00	.....	start						
	10.00	.....	50	360	30	21	4	.....	.....
	11.30	.....	51	100	1,310	30	34	.....	.....
	.....	5.00	52	300	290	13	17	.....	.....
27.....	10.00	.....	53	212	270	27	13	.....	.....
	.....	1.30	54	170	233	25	9	.....	.....
	.....	5.00	55	124	310	11	12	.....	.....

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	30 C.C.	50 C.C.	.01 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
.....	.....	.....	.....	.....	.....	.....	0	+	+	+	.....	+	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	+	+	.....	+	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	0	0	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	0	0	+	+	.....	+	.....
.....	.....	.....	.....	.....	.....	.....	0	—	+	+	+	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	0	0	+	0	+	+
.....	.....	.....	.....	.....	.....	.....	.....	0	0	+	.....	0+	+
.....	.....	.....	.....	.....	.....	.....	.....	0	0	+	.....	+	.....
.....	.....	.....	.....	.....	.....	.....	.....	0	0	0	.....	0	0
.....	.....	.....	.....	.....	.....	.....	.....	0	0	0	.....	0	+
.....	.....	.....	.....	.....	.....	.....	.....	0	0	0	.....	0	0
.....	.....	.....	.....	.....	.....	.....	.....	0	0	0	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	+	0	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	0	0	+	.....	+	+
.01	.05	.10	1.	5	10								
++	.....	.....	.....	.....	.....	.....	.....	+	+	.....	.....	.....	.....
—	.....	.....	.....	.....	.....	.....	.....	.....	+	+	+	+	+
0—	+	.....	.....	.....	.....	0	0	+	+	+	+	.....	.....
0—	+	.....	.....	.....	.....	0	0	+	+	+	+	.....	.....
0	+	.....	.....	.....	.....	0	—	+	+	+	.....	+	.....
0+	+	.....	.....	.....	.....	.....	0	+	+	+	.....	+	+
++	+	.....	.....	.....	.....	0	+	+	+	+	.....	+	+
.....	.....	0	—	+	+	0	0	0	0	.....	.....	0	+
.....	.....	0	+	+	+	.....	.....	0	0	0	.....	0	D —
.....	.....	0	0	0	+	.....	.....	0	0	0	.....	+	+
.....	.....	0	00	0	0	.....	.....	0	0	0	.....	00	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	.....	0	D —
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	0	0
.....	.....	.....	0	0	0	.....	.....	.....	.....	+	+	+	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	+	+	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	+	+	+	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	0	—	—	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	0	+	+

APPENDIX B—

SAND

TANK "B"—RATE 5,000,000

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .005 C.C.
1911									
April 28.....	10.00	.....	56	268	180	30	5	.....	.....
.....	.....	2.30	57	210	164	40	16	.....	.....
.....	.....	5.00	58	3,000	140	400	9	0	00
29.....	10.00	just tric from	kling orifice.	527	325	66.3	13		
.....	10.00	.....	59	12,000	64	4,000	10	0	0
.....	.....	1.00	60	7,600	26	1,500	4	0	0
May 1.....	10.00	.....	61	2,700	50	1,400	26	.....	.....
.....	.....	1.00	62	9,500	18	2,500	12	0	+
.....	.....	4.00	63	6,000	22	4,400	8	0	0
2.....	10.30	.....	64	6,400	36	3,700	9	.....	.....
.....	.....	4.00	65	5,600	18	4,200	14	.....	.....
3.....	10.30	.....	66	1,660	250	230	6	0	0
.....	11.00	.....	cleaned	6,430	60.5	2,741	11		
4.....	11.45	.....	start						
.....	11.45	.....	67	550	33	90	9	.....	0
.....	.....	5.00	68	880	153	80	9	.....	0
5.....	12.30	.....	69	209	150	6	12	.....	.....
.....	.....	5.00	70	200	240	.....	10	.....	.....
6.....	10.00	.....	71	1,260	29	.....	8	.....	.....
.....	.....	12.00	72	1,100	960	13	22	.....	.....
8.....	10 00	.....	stop	700	261	47	11	.....	.....
.....	10.00	.....	73	700	150	.....	5	.....	.....
.....	.....	1.00	74	500	32	.....	0	.....	.....
.....	.....	5.00	75	1,800	54	.....	3	.....	.....
9.....	10.00	.....	76	14,300	46	1,620	.....	.....	0
.....	.....	1.00	77	13,700	40	2,100	2	.....	0
.....	.....	5.00	78	14,700	33	2,050	2	0	0
10.....	12.00	.....	79	4,900	50	550	11	0	0
.....	.....	5.00	80	27,000	33	14,000	6	0	0
11.....	10.00	.....	81	13,000	48	3,400	4	0	+
.....	.....	2.00	82	17,300	140	2,430	4	0	+
.....	.....	5.00	83	17,700	700	6,600	103	0	+
12.....	11.00	.....	84	26,000	70	4,300	14	—	0
.....	.....	3.00	cleaned	12,620	116	4,116	14		
.....	.....	5.00	85	110,000	107	22,000	8	0	0
13.....	9.30	.....	start						
.....	10.30	.....	86	39,000	73	7,100	25	+	+
.....	.....	2.30	87	14,400	187	5,200	56	0	0
15.....	9.00	.....	stop	26,700	130	6,150	40.5		
16.....	10.00	.....	88	28,000	26	7,000	7	0	0
.....	.....	2.30	89	25,000	24	6,000	2	0	0

Continued.

FILTERS,

GALLONS PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.05 C.C.	.1 C.C.	1. C.C.	5 C.C.	10 C.C.	.01 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
.....	.....	.....	.....	.....	.....	.....	.....	0	0	G — D	+	+	+
.....	.....	.....	.....	.....	.....	.....	.....	0	0	—	+	+	+
0	0	+	+	+	+	.....	.....	0	0	+	.....	+	+
00	+	+	+	.....	.....	.....	.....	0	0	0	.....	+	0
0—	+	+	+	.....	.....	.....	.....	0	0	0	.....	—	0
0	+	.....	.....	+	+	.....	.....	0	0	0	.....	+	+ +
+	+	+	.....	+	.....	.....	.....	0	0	0	.....	0	0
+	+	+	.....	+	.....	.....	.....	0	0	0	.....	+	+
0	—	+	.....	.....	.....	.....	.....	0	0	0	.....	0	+
+	.....	+	.....	.....	.....	.....	.....	0	0	0	.....	+	+
.....	0	0	+	+	.....	.....	.....	.....	0	0	.....	+	+
0	0	0	+	.....	.....	.....	.....	.....	0	0	.....	0	0
0	0	0	+	0	.....	.....	.....	0	+	+	.....	+	+
.....	0	0	0	0	0	.....	.....	0	.....	+	.....	+	+
.....	.....	0	0	0	0	.....	.....	0	.....	+	.....	+	+
.....	.....	.....	.....	0	0	.....	.....	.....	0	0	.....	+	+
.....	.....	0	.....	0	+	.....	.....	.....	0	—	.....	+	+
.....	.....	0	.....	0	0	.....	.....	0	0	0	.....	0	+
.....	.....	0	.....	0	0	.....	.....	0	0	0	.....	0	0
.....	.....	—	.....	+	+	.....	.....	0	0	0	.....	0	0
+	+	+	+	+	.....	.....	.....	0	0	0	.....	0	0
+	+	+	+	+	.....	.....	.....	0	0	0	.....	0	+
—	+	+	+	.....	.....	.....	.....	0	0	0	.....	0	0
0	0	+	+	.....	.....	.....	.....	0	0	0	.....	+	0
+	+	+	+	.....	.....	.....	.....	0	0	0	.....	0	+
+	+	+	+	.....	.....	.....	.....	0	0	0	.....	0	0
+	+	+	+	.....	.....	.....	.....	0	0	0	.....	0	0
+	+	+	+	.....	.....	.....	.....	+	+	+	.....	+	+
0	0	+	+	.....	.....	.....	.....	+	+	+	.....	+	+
0	+	+	+	.....	.....	.....	.....	+	+	+	.....	+	+
+	+	+	+	.....	.....	.....	+	+	+	+	.....	+	+
+	+	+	+	.....	.....	.....	0	+	+	+	.....	+	+
+	+	+	+	.....	.....	.....	0	+	+	+	.....	.....	.....
+	+	+	+	.....	.....	.....	0	0	+	+	.....	+	+

APPENDIX B—

SAND

TANK "B"—RATE 5,000,000

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .005 C.C.
1911	.....	4.30	90	19,000	15	2,700	11	—	—
	.....	4.30	cleaned	24,000	32	5,230	6.6		
May 17.....	9.50	.....	start						
	11.00	.....	91	22,000	117	1,600	18	0	+
	.....	2.00	92	25,000	300	3,200	74	+	+
17.....	.....	5.00	93	30,000	160	4,000	58	0	0
18.....	11.00	.....	94	27,000	225	2,200	41	0+	0
	.....	2.00	95	19,000	250	4,000	40	+0	—
19.....	10.00 schm	..... utzdicke	stop plugged	24,600 tight ov	210 er night	3,000	46		
	10,30	.....	96	28,500	60	4,800	18	0	0
	.....	1.30	97	26,500	38	7,300	10	0	+
	.....	5.00	98	.....	36	7,000	12	0	0
20.....	10.00	.....	99	150,000	35	38,000	20	—	0
	.....	1.00	100	100,000	43	35,000	16	0	0
				cleaned	between	1&2 p.m.			
22.....	.....	2.00	102	18,000	48	4,200	8	0	0
	.....	5.00	103	24,000	54	6,400	21	0	0
23.....	10.00	.....	104	31,400	40	7,900	6	0	0
	.....	1.00	start	54,057	44.2	13,825	13.8		
	.....	1.00	105	31,000	22	13,500	8	0	0
	.....	5.00	106	41,000	900	4,600	.....	+	+
				stop and	rested	till 25th	at 10.00		
25.....	10.00	.....	107	280,000	150	36,000	20	—	—
	.....	2.00	108	53,200	1,900	8,000	180	0	0
	.....	5.00	109	90,000	1,150	15,000	81	+	+
26.....	10.00	.....	stop	99,040	824.	15,420	72.2		
	10.00	.....	110	10,800	212	900	44	0	0
	.....	5.00	111	10,000	180	3,000	25	0	+
27.....	10.00	.....	112	15,500	105	2,200	7	0	0
	.....	12.00	113	20,000	96	7,300	17	0	0
29.....	10.00	.....	114	150,000	32	7,000	6	0	0
	12.30	.....	115	84,000	45	8,600	7	0	0
	.....	2.00	cleaned	48,383	111.6	4,833	17.6		
30.....	.....	2.00	start						
31.....	10.00	.....	116	13,400	1,330	2,400	480	0	0
	.....	1.30	117	120,000	2,600	10,700	480	0	+
31.....	.....	5.00	118	.....	1,000	.....	280	0	0
June 1.....	10.00	.....	stop	66,700	1,843	6,550	413.3		
	10.00	.....	119	60,000	280	9,600	96	0	0
	.....	1.00	120	50,000	570	9,700	110	0	0

Continued.

FILTERS.

GALLONS PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.05 C.C.	.1 C.C.	1. C.C.	5 C.C.	10 C.C.	.01 C.C.	.10 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
+	+	+	+	.....	.....	.....	0	0	—	+	.....	+	+
+	+	+	+	.....	.....	.....	0	—	+	+	.....	+	+
+	+	+	+	.....	.....	.....	+	+	+	+	.....	+	+
+	+	+	+	.....	.....	.....	+	+	+	+	.....	+	+
+	+	+	+	.....	.....	.....	—	+	+	+	.....	+	+
+	+	.....	.....	.....	.....	.....	—	+	+	+	.....	+	+
+	+	.....	.....	.....	.....	.....	0	—	—	+	.....	+	.....
+	+	.....	.....	.....	.....	.....	.....	0	+	+	+	.....	.....
+	+	.....	.....	.....	.....	.....	0	0	+	+	+	.....	.....
+	+	.....	.....	.....	.....	.....	0	+	+	+	+	.....	.....
+	+	.....	.....	.....	.....	.....	0	0	+	+	+	.....	.....
0	0	.....	.....	.....	.....	.....	0	0	+	+	.....	+	+
+	+	.....	.....	.....	.....	.....	0	0	+	+	.....	+	+
+	+	.....	.....	.....	.....	.....	0	0	+	+	.....	+	+
+	+	.....	.....	.....	.....	.....	0	0	+	+	.....	+	+
+	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
						.02 C.C.							
+	+	+	.....	.....	.....	0	.....	+	+	+	.....	+	+
—	+	+	.....	.....	.....	0	+	+	+	+	.....	+	.....
+	+	+	.....	.....	.....	0	—	—	+	+	.....	+	.....
0	0	0	.....	.....	.....	0	+	+	+	+	.....	+	.....
+	—	.....	.....	.....	.....	0	+	+	+	+	.....	.....	.....
+	0	.....	.....	.....	.....	+	0	+	+	+	.....	+	.....
+	+	.....	.....	.....	.....	0	+	+	+	+	.....	.....	.....
+	+	.....	.....	.....	.....	.....	.....	0	—	+	+	+	.....
—	+	.....	.....	.....	.....	0	0	0	+	+	+	+	.....
+	+	.....	.....	.....	.....	+	+	+	+	+	.....	.....	.....
+	+	.....	.....	.....	.....	—	+	+	+	+	.....	.....	.....
0	0	.....	.....	.....	.....	0	+	+	+	+	.....	.....	.....
0	+	.....	.....	.....	.....	0	0	+	+	+	.....	.....	.....
+	+	.....	.....	.....	.....	—	0	+	+	+	.....	.....	.....

APPENDIX B—

SAND

TANK "B"—RATE 5,000,000

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .002 C.C.
1911									
	.....	4.00	121	22,000	312	10,300	82	0	0
June 2.....	10.00	.....	122	28,000	460	8,000	22	0	0
	.....	2.30	123	19,000	750	3,300	68	0	0
	.....	3.00	cleaned	35,800	4,544	8,380	75.6		
	.....	5.00	124	300	850	400	71	0	0
3.....	10.00	.....	125	45,000	630	6,000	60	0	0
	.....	1.00	126	38,000	260	5,800	40	0	0
5.....	.....	2.30	start	27,766	580	4,066	57		
	.....	2.30	127	92.000	270	15,400	11	0	0
	.....	3.15	128	.....	326	.....	77	.....	.....
	.....	3.25	129	.....	305	.....	80	.....	.....
	.....	3.35	130	.....	310	.....	—	.....	.....
	.....	3.45	131	.....	350	.....	103	.....	.....
	.....	3.55	132	136,000	380	21,000	65	0	0
	.....	5.00	133	.....	290	.....	35	.....	.....
6.....	11.00	.....	134	9,000	480	1,850	210	.....	.....
	.....	1.00	135	12,000	500	2,400	210	.....	.....
7.....	10.00	.....	136	1,500	230	90	60	.....	.....
	.....	1.30	137	2,400	175	2,400	38	.....	0
	.....	5.00	138	2,400	100	900	20	.....	.....
8.....	10.30	.....	stop	36,471	309.6	6,291	82.6		
	10.30	.....	139	3,000	95	120	10	.....	.....
	.....	1.00	140	270	65	36	34	.....	.....
		drained	through						
	.....	4.00	bottom	1,635	80	78	22	.....	.....
	.....	5.00	141	500	300	93	155	.....	.....
9.....	11.00	cleaned							
	.....	1.30	143	700	235	.....	27	.....	.....
10.....	10.00	.....	start	600	267.5	93	91		
	10.00	.....	144	1,296	80	15	12	.....	.....
	.....	1.00	145	1,160	50	2	14	.....	.....
	.....	1.00	stop	1,288	65	8.5	13		
11.....	10.30	.....	start						
12.....	10.30	.....	146	1,000	43	185	24	.....	.....
	.....	1.00	147	830	50	64	8	.....	.....
	.....	4.00	148	190	40	18	18	.....	.....
13.....	10.00	.....	149	400	33	17	4	.....	.....
	.....	12.00	150	280	30	18	3	.....	.....
	.....	4.00	151	112	28	7	17	.....	.....
14.....	11.00	.....	152	1,500	26	128	2	.....	.....
	.....	2.30	153	13,500	111	1,600	36	.....	.....
	.....	5.00	154	8,000	240	1,300	90	.....	.....
	.....	5.00	stop	2,866	66.7	370.7	22.4		
15.....	11.00	.....	155	15,000	100	4,600	60	—	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	.02 C.C.	.1 C.C.	2 C.C.	5 C.C.	10 C.C.	20 C.C.	30 C.C.	50 C.C.
+	+	.....	.....	.....	.....	0	0	+	+	+	.....	.....	.....
+	+	.....	.....	.....	.....	0	0	+	+	+	.....	.....	.....
—	—	.....	.....	.....	.....	—	+	+	+	+	.....	.....	.....
0	0	.....	.....	.....	.....	+	—	+	+	.....	.....	.....	.....
+	+	.....	.....	.....	.....	0	0	+	+	+	.....	.....	.....
+	0	.....	.....	.....	.....	0	0	+	+	+	.....	.....	.....
+	+	.....	.....	.....	.....	.....	0	+	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	+	.....	.....	.....	.....	.....	0	—	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	0	+	+	+	+	.....	.....	0	+	+	+	.....	+
.....	0	+	+	+	+	.....	0	+	+	+	.....	.....	.....
.....	.....	0	—	—	+	.....	0	0	—	+	+	.....	.....
+	+	+	.....	.....	.....	.....	0	—	+	+	+	.....	.....
.....	0	0	0	+	+	0	0	0	+	+	.....	.....	.....
.....	.....	0	+	+	+	.....	0	0	+	+	+	.....	.....
.....	.....	0	0	0	+	.....	.....	0	—	+	+	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	0	—	0	+	0	0	—	+	+	.....	+	+
.....	.....	.....	0	—	+	.....	0	—	+	+	+	.....	+
.....	.....	.....	0	0	0	.....	0	0	+	+	+	.....	+
.....	.....	.....	0	0	+	.....	.....	—	+	+	+	.....	+
.....	.....	.....	0	0	+	.....	.....	—	+	—	+	.....	.....
.....	.....	.....	0	0	0	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	0	0	+	.....	.....	+	+	+	+	.....	.....
.....	.....	.....	0	—	+	.....	.....	+	+	+	+	.....	.....
.....	.....	.....	0	0	0	.....	.....	—	—	+	+	.....	+
.....	.....	.....	0	0	0	.....	.....	0	0	+	+	.....	+
0	0	+	.....	+	+	.....	.....	0	+	+	+	.....	.....
0	+	+	.....	.....	.....	0	0	+	+	+	.....	.....	.....
0	0	0	.....	.....	.....	0	0	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	0	+	+	+	+	.....	.....	.....

APPENDIX B—
SAND
TANK "B"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. 1 C.C.	Influent. 5 C.C.
1911									
	.....	1.30	156	7,500	80	1,420	30	0	0
June 16.....	10.00	.....	157	12,000	51	580	18	.....	.....
	10.00	raked &	started	11,500	77	2,200	36		
	.....	5.00	158	13,500	67	2,200	12	.....	0
17.....	10.00	.....	159	3,000	27	300	.....	.....	.....
	12.00	.....	stop	8,250	47	1,250	12		
19.....	11.00	.....	start						
	11.00	.....	160	14,000	28	600	15	0	0
	.....	1.30	161	1,700	70	300	20	0	0
20.....	10.00	.....	162	12,000	300	4,500	110	.....	.....
	12.00	.....	163	9,000	230	12,000	160	0	0
	.....	3.30	164	25,000	800	7,500	240	0	0
21.....	10.30	.....	165	20,000	330	2,350	128	.....	.....
	10.00	.....	stop	13,616	293	4,541.6	112.1		
	.....	2.00	166	7,300	100	1,170	24	.....	.....
	.....	3.00	raked						
	.....	5.00	167	15,300	138	2,000	50	.....	.....
22.....	.....	.....	stopped						
23.....	11.00	.....	start						
24.....	11.00	.....	stop						
26.....	10.30	.....	start						
	10.30	.....	168	11,400	16	3,200	3	.....	0
	.....	2.00	169	18,000	610	6,000	315	.....	.....
	.....	4.30	170	11,500	355	3,800	120	.....	.....
27.....	10.00	.....	171	27,000	530	6,500	85	.....	.....
	.....	3.00	172	12,500	310	4,000	61	.....	.....
28.....	11.00	.....	173	18,000	130	8,500	44	.....	+
	11.00	.....	stop	16,400	325.1	5,333	104.6		
29.....	.....	2.00	raked						
30.....	10.00	.....	start						
	10.00	.....	175	120,000	116	6,000	11	+	+
	12.30	.....	176	88,000	1,100	3,100	142	+	+
				104,000	608	4,550	76.5		
	.....	4.00	stopover	holiday,	started	July 3rd,	12.00 wit	hout c	lean'g.
July 3.....	10.00	.....	177	90,000	46	650	2	0	0
	12.00	.....	178	300	47	5,000	11	0	0
	12.00	.....	start	45,150	46.5	2,825	6.5		
	.....	5.00	179	300	2,900	600	245	.....	.....
4.....	12.30	.....	180	7,300	1,100	1,000	134	.....	.....
	.....	4.00	181	1,200	760	600	76	.....	.....
5.....	10.00	.....	182	1,600	230	100	25	0	0
5.....	.....	1.00	183	1,300	220	150	11	0	0
	.....	5.00	184	7,600	330	3,500	38	0	0
6.....	10.00	.....	stop	3,216	923.3	991.6	88.1		
feed	pipe disc	onnected	while	repairing	apparat	us			
	.....	1.00	start						

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
0	0	++	.....	.....	.....	0	+	+	+	+	.....	.....	.....
0	0	+ +	.....	.....	.....	+	+	+	+	+	.....	.....	.....
0	+	+	.....	.....	.....	0	0	+	+	+	.....	.....	.....
0	0	+	.....	.....	.....	0	0	+	+	+	.....	.....	.....
0	0	.....	.....	.....	.....	0	0	0	+	+	.....	.....	.....
0	0	0	+	+	.....	0	+	+	+	+	.....	.....	.....
0	+	+	+	.....	.....	+	+	+	+	.....	.....	.....	.....
+	+	+	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
+	+	+	.....	.....	.....	0	0	+	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	0	+	.....	.....	.....	0	0	+	+	+	.....	.....	.....
0	0	++	+	.....	.....	0	0	+	+	+	.....	.....	.....
—	+	++	.....	.....	.....	0	0	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	+	+	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	0	+	+	+	+	.....	.....	.....
—	+	++	.....	.....	.....	+	+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	.....	0	+	+	+	.....	.....	.....
0	+	+	.....	.....	.....	0	+	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	0	0	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	+	+	+	+	.....	.....	.....	.....
0	+	++	.....	.....	.....	0	0	+	+	+	.....	.....	.....
0	0	.....	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
0	0	00	.....	.....	.....	0	0	—	+	.....	.....	.....	.....
0	0	0	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
0	+	0	.....	.....	.....	0	0	+	+	.....	.....	.....	.....

APPENDIX B—

SAND

TANK "B"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .002 C.C.
1911									
	.....	1.00	185	850	76	300	7	0	0
	.....	2.00	186	2,300	280	1,200	145	0	0
	.....	2.00	stop	1,575	178	750	76	.....	.....
July 7.....	10.00	.....	187	1,340	500	380	93	0	0
	.....	2.00	188	2,700	260	930	88	0	0
10.....	.....	1.00	189	8,100	10	1,840	5	0	0
11.....	10.00	.....	190	.....	.....	270	8	0	0
	.....	3.00	raked	4,046	256.6	855	48.5		

TANK "B"—RATE 10,000,000 GALLONS

12.....	10.00	.....	start						
	10.00	.....	191	1,200	3,000	25	300	.....	.....
	.....	1.00	192	300	540	5	107	.....	.....
	.....	5.00	193	70	460	7	37	.....	.....
13.....	10.00	.....	194	20	380	24	27	.....	.....
	.....	1.00	195	800	500	1,400	90	0	—
	.....	5.00	196	10,000	800	4,800	195	.....	+
14.....	10.30	.....	197	6,000	840	3,500	165	.....	.....
	12.00	.....	198	8,000	800	3,000	120	0	0
	12.00	.....	stop	3,298.7	1,540	1,595	130.1		
	.....	2.00	raked						
15.....	10.00	.....	start						
	10.00	.....	199	500	266	100	100	0	0
	.....	1.00	200	7,000	900	4,000	300	+	0
17.....	10.00	.....	201	200	315	11	104	.....	.....
	.....	1.00	202	6,000	220	300	68	.....	.....
	.....	5.00	203	700	200	113	63	.....	.....
	.....	5.00	stop	2,880	380.2	904.6	127		
18.....	.....	2.00	raked						
	.....	4.00	204	282	550	1	42	.....	.....
19.....	10.00	.....	205	1,300	240	370	35	.....	.....
	10.00	.....	start	791	395	186	38.5		
	12.00	.....	206	4,000	360	2,600	67	.....	+
	.....	5.00	207	6,400	300	3,000	173	0	0
20.....	10.00	.....	208	10,500	550	2,340	114	0	+
	.....	2.00	209	9,500	370	2,000	110	0	0
21.....	10.00	.....	210	7,500	120	1,700	57	0	0
	10.00	.....	stop	7,580	340	2,328	102.2		
	.....	3.00	raked						
24.....	10.00	.....	start						
	10.00	.....	211	6,700	85	1,500	16	0	.....

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	.02 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	20 C.C.	30 C.C.	50 C.C.
0	0	0	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
0	0	0	.....	.....	.....	+	+	+	+	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
+	+	+	.....	.....	.....	+	+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	+	+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	0	0	—	+	+	.....	.....	.....
0	+	+	.....	.....	.....	0	0	+	+	+	.....	.....	.....

PER ACRE PER DAY.

0	0	0	—	—	+	—	+	+	.....	.....	.....	.....	.....
.....	0	0	—	+	+	0	+	+	+	.....	.....	.....	.....
0	0	0	.....	—	—	0	+	+	+	.....	.....	.....	.....
0	0	0	0	0	+	0	—	+	+	.....	.....	.....	.....
+	+	+	+	.....	.....	—	+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	—	+	+	+	.....	.....	.....	.....
.....	.....	.....	+	+	.....	+	+	+	+	.....	.....	.....	.....
+	+	+	+	.....	.....	0	+	+	+	.....	.....	.....	.....
0	0	.....	.....	.....	.....	—	—	+	.....	.....	.....	.....	.....
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0	0	0	0	0	+	.....	0	+	+	.....	.....	.....	.....
0	0	0	+	+	+	+	+	+	+	.....	.....	.....	.....
.....	.....	0	+	+	+	0	0	+	+	+	.....	.....	.....
0	0	0	0	+	+	.....	+	+	+	+	.....	.....	.....
0	+	+	+	+	.....	.....	0	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	.....	+	+	+	+	.....	.....	.....
+	+	+	+	.....	.....	0	+	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	+	+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	.....	0	+	+	.....	.....	.....	.....
+	+	.....	.....	.....	.....	0	—	+	+	.....	.....	.....	.....

APPENDIX B—

SAND

TANK "B"—RATE 10,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .002 C.C.
1911									
	.....	1.00	212	24,000	210	7,600	60	+	.....
	.....	5.00	213	7,000	450	5,000	165	0	.....
July 25.....	10.00	.....	214	22,400	440	9,300	240	+	+
	.....	11.30	stop repairing appara	15,025	296.2 tus.	5,850 filter not	115.2 cleaned.		
	.....	1.00	215	17,000	440	7,300	170	—	+
	.....	3.00	start						
	.....	5.00	216	10,000	650	2,300	230	0	0
26.....	10.00	.....	217	.....	120	.....	51	—	+
	10.00	.....	stop	10,000	385	2,300	140.5		
	11.00	.....	raked						
27.....	10.00	.....	start						
	10.00	.....	218	46,600	135	30,000	22	+	0
	10.10	.....	219	.....	.....	.....	40	.....	.....
	10.20	.....	220	.....	.....	.....	77	.....	.....
	10.30	.....	221	.....	.....	.....	100	.....	.....
	10.40	.....	222	.....	.....	.....	110	.....	.....
	10.50	.....	223	.....	.....	.....	530	.....	.....
	11.00	.....	224	.....	.....	.....	900	.....	.....
	11.30	.....	225	.....	.....	.....	625	.....	.....
	12.00	.....	226	.....	1,200	.....	220	0	+
	12.30	.....	227	.....	.....	.....	165	.....	.....
	.....	1.00	228	4,400	.....	26,000	185	.....	.....
	.....	1.30	229	.....	.....	.....	200	.....	.....
	.....	2.00	230	.....	.....	.....	137	.....	.....
	.....	3.00	231	.....	.....	.....	136	.....	.....
	.....	4.00	232	.....	.....	.....	110	.....	.....
	.....	5.00	233	28,000	420	12,000	118	0	0
28.....	10.00	.....	234	4,700	300	1,800	95	0	0
	.....	1.00	235	4,555	380	1,800	60	0	0
	.....	6.00	236	3,500	250	1,600	54	0	0
29.....	10.00	.....	237	3,300	193	800	70	0	0
	.....	5.30	238	2,200	150	300	28	0	0
	.....	5.30	stop	17,100	378.5	9,287.	189.6		
31.....	2.00–4.00	.....	raked						
Aug. 1.....	10.00	.....	start						
	10.00	.....	239	9,000	3,200	1,500	320	.....	.....
	.....	1.00	240	19,000	400	3,300	84	0	0
2.....	10.30	.....	241	17,000	340	3,860	115	0	0
	.....	1.00	242	12,000	460	2,080	110	—	—
	.....	5.00	243	12,000	230	3,200	51	.....	0
3.....	10.00	.....	244	24,000	145	4,700	40	0	+
	10,00	.....	stop	15,500	786	3,106	120		
10.....	.....	4.00	raked						
11.....	10.00	.....	start	12,000	8,000	2,000	2,000	.....	0
		Temp. of	water	Aug. 3rd	-11th 20°	C			

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	.02 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	20 C.C.	30 C.C.	50 C.C.
+	+	.....	.....	.....	.....	—	+	+	+	.....	.....	.....	.....
0	0	.....	.....	.....	.....	—	+	+	+	.....	.....	.....	.....
+	+	.....	.....	.....	.....	+	+	+	+	.....	.....	.....	.....
+	+	.....	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
+	0	.....	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
+	.....	.....	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
+	.....	.....	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
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+	.....	.....	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
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0	.....	.....	.....	.....	.....	0	0	—	+	.....	.....	.....	.....
0	0	.....	.....	.....	.....	0	0	+	.....	.....	.....	.....	.....
0	0	.....	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
0	0	.....	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
—	+	+	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
0	0	+	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
+	0	+	.....	.....	.....	.....	—+	+	+	.....	.....	.....	.....
—	+	+	.....	.....	.....	.....	0+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	.....	+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	.....	00	+	+	.....	.....	.....	.....
+	0	+	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
0	+	+	.....	.....	.....	.....	+	+	+	.....	.....	.....	.....

APPENDIX B—
SAND

EXPERIMENTAL STATION. TANK "C"—RATE 5,000,000 GALLONS

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. 1 C.C.	Influent. 5 C.C.
1911 Mar. 2.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
6.....	12.00	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	5.00	.....	.....	.....	.....	.....	.....	.....
7.....	.....	5.00	.....	.....	.....	.....	.....	.....	.....
8.....	12.00	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	5.00	.....	.....	.....	.....	.....	.....	.....
10.....	10.00	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	4.00	.....	.....	.....	.....	.....	.....	.....
11.....	12.00	.....	.....	.....	.....	.....	.....	.....	.....
13.....	12.00	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	5.00	.....	.....	.....	.....	.....	.....	.....
14.....	10.00	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	12.00	.....	.....	.....	.....	.....	.....	.....
.....	.....	5.00	.....	.....	.....	.....	.....	.....	.....
The Sand was la	Charact id witho	er of effl ut wash	uent bef ing so th	ore the at neces	sewage sitated	influent determ	was app inations	lied. as giv	en.
14.....	.....	4.00	.....	.....	18	.....	18	.....	.....
16.....	10.00	.....	.....	.....	.....	.....	43	.....	.....
.....	.....	1.00	1	.....	.....	.....	22	.....	.....
24.....	.....	5.00	stop	.....	18	.....	27		
25.....	11.00	.....	first cle	aning af	ter fillin	g filter	with an	unwas	hed pit
	12.45	.....	started						
.....	.....	1.00	2	14,000	.....	2,320	4,200	.....	.....
27.....	.....	5.00	3	880	.....	.....	3,530	0	0
28.....	10.00	.....	4	16,000	3,000	45	1,200	0	0
								.001 C.C.	.01 C.C.
.....	.....	5.00	5	740 7,000	0 6,400	320 2,600	0 600		+0
29.....	10.00	.....	6	243	0 2,500	30	4 20	.....	.....
.....	.....	5.00	7	3,200 30,000	0 2,800	340 3,600	2 22	.....	+
30.....	10.00	.....	8	260	0 1,800	35	—	.....	.....
.....	.....	5.00	9	600 8,000	0 1,700	1,120 5,600	160 500	.....	+
31.....	10.00	.....	10	9,000	13,600	280 2,000	3 136	.....	+
.....	.....	5.00	11	1,300 8,500	5,400	1,300 3,850	34 280	0	0+
April 1.....	10.00	.....	12	7,800	7,500	3,950	8 480	0	+ +
4.....	.....	5.00	13	900 13,300	350	1,300 4,500	11 40	00	+ +
5.....	10.00	.....	14	8,800	420	2,600	11 24	0+	—+

Small figures Red Colonies on Litmus Lactose Agar.

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
											D —		
.....	.....	.....	.....	.....	.....	0	0	0	0	.....		.....	0
.....	.....	.....	.....	.....	.....	.....	.....	+0	.....	.....	0—	.....	- - - + +
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.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	00	.....	00
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.....	.....	.....	.....	.....	.....	.....	.....	00	.....	.....	00	.....	00
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sand,	surfac	e level	led.										
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	.....	0	.....	+	+	+	+	.....	.....	+	.....	+
0	.....	.....	0	.....	+	—	+	+	.....	.....	+	.....	+
.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	30 C.C.	50 C.C.	.01 C.C.	.1 C.C.	1. C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
+	+	+	.....	.....	.....	0	0	+	+	+	.....	+	.....
.....	0	0	.....	0	0	0	0	+	.....	+	.....	.....	.....
+	+	.....	+	+	.....	0	0	—	+	+	.....	+	.....
.....	0	0	0	+	+	00	+	+	+	.....	.....	+	.....
++	+	+	+	.....	.....	0	+	+	+	.....	.....	.....	.....
+	+	+	+	.....	.....	.....	+	+	+	+	.....	.....	.....
+	+	.....	.....	.....	.....	.....	++	+	+	+	.....	.....	.....
+	+	.....	.....	.....	.....	.....	0+	+	+	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	G — —	+	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	0+	+	+	+	.....	.....	.....

APPENDIX B—

SAND

TANK "C"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .01 C.C.
1911	.....	5.00	15	3,000 19,200	190	1,800 7,000	9 27	+	—+
April 6.....	10.00	.....	16	600 7,200	80	2,600	4 26	—	+
7.....	10.20	.....	17	600 5,100	5 141	800 3,500	6 30	0	—+
	.....	5.00	18	14,100	500	1,800	10 55	0	—0
	.....	5.00	stop	9,950	2,960	2,875	695		
8	.....	1.00	19	7,000	1,100	2,000	27	0	++
11.....	11.00	.....	20	28,000	3,000	800 3,700	0 61	+	++
	.....	12.00	21	.....	3,300	.....	70		
	.....	1.00	22	.....	1,520	.....	114		
	.....	2.00	23	.....	900	.....	75		
11.....	.....	3.00	23	.....	181	.....	73	.....	.....
	.....	4.00	23	.....	920	.....	242	.....	.....
	.....	5.00	23	29,000	3,200	2200 6,200	18 42	.....	.....
12.....	11.00	.....	24	3,400 18,000	1,200	800 3,900	9	.....	.....
								.001 C.C.	.01 C.C.
13.....	.....	5.00	26	11,400	135	3,500	11	0	—0
15.....	10.00	.....	27	19,000	270	4,700	29	00	0+
	.....	1.00	stop	18,730	1,430	4,000	68		
	.....	1.00	28	8,800	87	4,400	23	00	0+
17.....	10.00	.....	29	.....	113	3,000	7	0+	++
	.....	1.00	30	40,000	64	7,300	8	00	+0
	.....	5.00	31	10,400	45	1,900	9	00	++
18.....	10.00	.....	32	16,500	43	2,800	.....	00	++
	.....	1.00	33	14,000	77	3,400	10	0	++
	.....	3.00 after cleaning	start	17,940	71	3,800	11		
	.....	5.00	34	5.000	60	2,300	24	0	00
19.....	10.00	.....	35	32,700	2,700	5,900	18	.....	0+
	.....	1.00	36	26,400	530	8,400	22	0	0+
	.....	5.00	37	15,300	251	9,000	25	00	0+
								.001 C.C.	.005 C.C.
20.....	10.30	.....	38	30,000	187	8,200	19	.....	0
	.....	5.00	39	8,200	170	2,400	23	0	0
21.....	10.00	.....	40	2,600	180	170	13	0	.....
	.....	2.00	41	10,200	150	1,000	16	00	0
	.....	5.00	42	13,800	76	2,000	11	0	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.05 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	.01 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
—	.....	.....	.....	.....	.....	.....	00	—	+	.....	.....	.....	.....
+	.....	.....	.....	.....	.....	0	00	+	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	0	+	+	+	.....	.....	.....
0	+	+	.....	.....	.....	0	— —	+	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	0	—	+	+	.....	+	.....	.....
.....	.....	.....	.....	.....	.....	.....	0	+	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.1 C.C.	0.1 C.C.	5 C.C.	10 C.C.	30 C.C.	50 C.C.	.01 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
.....	.....	.....	.....	.....	.....	.....	0	0	+	+	+	.....	.....
.....	.....	.....	.....	.....	.....	.....	0	0	+	+	.....	+	.....
.....	.....	.....	.....	.....	.....	.....	0	0	+	+	+	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	0	0	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	0	0	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	0	G —	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	0	0	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	G —	+	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	0	+	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	G —	+	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	+	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	+	+	.....	+	+
.01 C.C.	.05 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.								
++	.....	.....	.....	.....	.....	.....	.....	+	+	+	.....	+	+
—	.....	.....	.....	.....	.....	.....	.....	.....	+	+	.....	+	.....
0—	+	.....	.....	.....	.....	.....	0	0	+	+	+	.....	.....
0—	+	.....	.....	.....	.....	.....	0	+	+	+	+	+	.....
0	+	.....	.....	.....	.....	.....	0	0	0	0+	0+	+	.....

APPENDIX B—

SAND

TANK "C"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. 1 C.C.	Influent. 5 C.C.
1911									
April 22.....	10.00	.....	43	8,200	53	2,300	18	+	—
.....	.....	2.30	44	6,100	50	5,100	15	0	0
24.....	10.00	.....	stop	14,410	401	4,252	18.5		
	10.00	.....	45	2,400	34	440	11		
	.....	2.30	46	2,400	32	180	2		
	.....	5.00	47	580	170	74	14		
25.....	10.00	.....	48	500	45	36	16		
								.001 C.C.	.005 C.C.
	.....	1.00	49	.....	88	.....	6		
26.....	10.00	.....	start	1,470	74	182	9.8		
	cleaned	25th at	1.00						
	10.00	.....	50	100	46	30	4		
	.....	11.30	51	100	73	30	30		
	.....	5.00	52	.....	67	.....	12		
27.....	10.00	.....	53	.....	100	.....	23		
	.....	1.30	54	.....	58	.....	11		
	.....	5.00	55	.....	71	.....	16		
28.....	10.00	.....	head in	orifice	Box 4 in.				
	10.00	.....	56	.....	200	.....	15		
	.....	2.00	57	.....	113	.....	9		
	.....	5.00	58	3,000	290	400	13	0	0
29.....	10.30	.....	59	12,000	100	4,000	13	0	0
	.....	2.30	60	7,600	45	1,500	23	0	0
May 1.....	10.00	.....	stop	4,560	105.7	1,192	15.3		
	10.00	.....	61	2,700	36	1,400	8		
	.....	1.00	cleaned	usually	filled fro	m top			
	.....	2.00	62	.....	85	.....	24	0	+
	.....	4.00	63	6,000	20	4,400	6		
2.....	10.30	.....	64	6,400	50	3,700	6		
3.....	11.50	.....	start	5,030	48	3,160	11		
	11.55	.....	68	4,000	30	1,330	7		
	12.20	.....	69	.....	100	.....	25		
	12.35	.....	70	3,070	108	1,250	38		
	12.45	.....	71	.....	100	.....	20		
	12.55	.....	72	.....	105	.....	.....		
	.....	1.10	73	.....	81	.....	36		
	.....	2.10	74	3,400	340	1,420	24		
	.....	3.10	75	1,400	200	.....	36		
3.....	.....	4.10	76	.....	.....	.....	35		
	.....	5.10	77	1,400	125	.....	29	.....	0
4.....	12.00	.....	78	550	130	90	8	.....	0
	.....	2.30	79	.....	.....	.....	.....	.....	.....

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.05 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	.01 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
0 +	+	.....	.....	.....	.....	.....	.....	0	+	+	+	+	+
+ +	+	.....	.....	.....	.....	.....	0	0	+	+	+	+	+
.....	.....	0	—	+	+	.....	0	+	+	+	.....	+	+
.....	.....	0	+	+	+	.....	.....	0	0	+	.....	+	+
.....	.....	0	0	0	+	.....	.....	0	0	+	.....	+	+
.....	.....	0	00	0	0	.....	.....	0	0	+	0	+	+
.01 C.C.	.05 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	.01 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C..C	50 C.C.
.....	0	00	0	0	0	.....	.....	0	0	+	0	+	+
.....	0	0	0	0	0	.....	.....	.....	.....	0	0	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	+	+	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G —	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	+	+	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	+	D —	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	0	0	+	+	+
.....	.....	.....	.....	.....	.....	.....	.....	0	+	0	0	+	+
.....	.....	.....	.....	.....	.....	.....	.....	0	0	+	+	+	+
00	0	+	+	+	+	.....	.....	0	0	0	.....	+	+
00	+	+	+	.....	.....	.....	0	G —	0	0	.....	+	+
—0	+	+	+	.....	.....	.....	0	0	0	+	.....	+	+
0	+	.....	.....	+	+	.....	0	0	0	+	.....	+	+
+	+	+	+	.....	.....	.....	.....	0	—	0	+	+	+
+	.....	+	.....	.....	.....	.....	.....	0	0	0	.....	+	0
.....	.....	.....	.....	.....	.....	.....	.....	0	0	0	.....	0	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	.....	0	0
.....	—	+	+	+	.....	.....	.....	.....	.....	0	.....	0	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	G —	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	+	.....	+	+
.....	0	0	+	+	.....	.....	.....	.....	.....	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	.....	—	+	.....	+	+
.....	0	0	+	+	+	.....	.....	.....	+	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	0	+	+	.....	+	+
.....	.....	.....	.....	.....	.....	.....	.....	0	+	+	.....	+	+
0	0	0	+	.....	.....	.....	.....	0	+	+	.....	+	+
0	0	0	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

APPENDIX B—

SAND

TANK "C"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .005 C.C.
1911									
	.....	5.00	80	800	235	80	14	.....	0
May 5.....	12.30	.....	81	209	200	6	8	.....	.....
	.....	5.00	82	200	200	.....	8	.....	.....
6.....	10.00	.....	83	1,260	90	.....	8	.....	.....
	.....	12.00	84	1,100	130	13	7		
8.....	10.00	.....	stop	1,580	145	598	20		
	10.00	.....	85	.....	14	.....	2	.....	.....
	.....	1.00	86	.....	10	.....	9	.....	.....
	.....	5.00	87	.....	44	.....	2	.....	.....
9.....	10.00	.....	88	14,300	21	1,620	13	.....	0
	.....	2.30	89	13,700	15	2,100	10	.....	0
	.....	5.00	90	14,700	62	2,050	4	0	0
10.....	12.00	.....	91	4,900	90	550	.....	0	0
	.....	5.00	92	27,000	55	14,000	.....	0	0
11.....	10.00	.....	93	13,000	70	3,400	10	0	+
	.....	2.30	94	17,300	47	2,430	6	0	+
	.....	3.00	cleaned	14,985	43	3,735	7		
	.....	5.00	95	17,700	37	6,600	18	0	+
12.....	9.00	.....	start						
	11.00	.....	96	26,000	.....	4,300	11	—	0
	.....	5.00	97	110,000	6,000	22,000	150	0	0
13.....	10.30	.....	98	39,000	3,800	7,100	300	+	+
	.....	2.30	99	14,400	4,000	5,200	.....	0	0
15.....	9.00	.....	stop	41,420	3,460	9,040	119		
16.....	10.00	.....	100	28,000	30	7,000	13	0	0
16.....	.....	2.30	101	25,000	53	6,000	4	0	0
	.....	4.30	102	19,000	100	2,700	24	—	—
17.....	9.00	.....	start	24,000	61	5,230	13.6		
	11.00	.....	103	22,000	500	1,600	100	0	+
	.....	2.30	104	25,000	200	3,200	46	+	+
	.....	5.00	105	30,000	142	4,000	42	0	0
18.....	11.00	.....	106	27,000	164	2,200	28	0+	0
	.....	2.00	107	19,000	340	4,000	35	+0	—
19.....	10.00	.....	108	28,500	72	4,800	30	0	0
	10.00	.....	stop	25,250	236	3,300	47		
	.....	1.30	109	26,500	93	7,300	20	0	+
	.....	5.00	110	.....	100	7,000	11	0	0
20.....	10.00	.....	111	150,000	52	38,000	28	—	0
	.....	1.00	112	100,000	48	35,000	17	0	0
22.....	.....	1.00	cleaned	92,166	50.7	21,825	19		

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.05 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	.01 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
0	0	0		.....	.....	.....	.....	+	+	+	.....	+	+
.....	0	0	0	0	0	.....	.....	0	+	+	.....	+	+
.....	.....	0	0	0	0	.....	.....	0	+	+	.....	+	+
.....	.....	.....	.....	0	0	.....	.....	—	+	+	.....	+	+
.....	.....	.....	0	0	+	.....	.....	0	—	+	.....	+	+
.....	.....	.....	0	0	0	.....	.....	.....	0	+	.....	+	+
.....	.....	.....	0	0	0	.....	.....	0	+	+	.....	+	+
.....	.....	.....	—	+	+	.....	.....	.....	0	+	.....	+	+
+	+	+	+	.....	.....	.....	.....	0	+	0	.....	0	+
+	+	+	+	.....	.....	.....	.....	0	0	0	.....	0	—
+	—	+	+	.....	.....	.....	.....	—	+	+	.....	+	+
0	0	+	+	.....	.....	.....	.....	+	+	+	.....	+	+
+	+	+	+	.....	.....	.....	.....	0	0	—	.....	+	+
+	+	+	+	.....	.....	.....	.....	0	0	0	.....	+	+
+	+	+	+	.....	.....	.....	.....	0	0	+	.....	+	+
+	+	+	+	.....	.....	0	0	+	+	+	.....	+	.....
0	0	+	+	.....	.....	.....	—	+	+	+	.....	+	+
0	+	+	+	.....	.....	.....	.....	+	+	+	.....	+	+
+	+	+	+	.....	.....	.....	+	+	+	+	.....	+	+
+	+	+	+	.....	.....	.....	+	+	+	+	.....	+	+
+	+	+	+	.....	.....	0	0	+	+	—	.....	+	+
+	+	+	+	.....	.....	.....	+	+	+	+	.....	+	+
+	+	+	+	.....	.....	0	+	+	+	+	.....	+	+
+	+	+	+	.....	.....	0	+	+	+	+	.....	+	+
+	+	.....	.....	.....	.....	.....	0	+	+	+	.....	+	+
+	+	.....	.....	.....	.....	.....	+	+	+	+	.....	+	+
+	+	.....	.....	.....	.....	.....	+	+	+	+	.....	+	+
+	+	.....	.....	.....	.....	.....	0	+	+	+	.....	.....	.....
+	+	.....	.....	.....	.....	.....	0	0	+	+	.....	+	.....
+	+	.....	.....	.....	.....	.....	0	+	+	+	+	.....	.....
+	+	.....	.....	.....	.....	.....	0	0	+	+	+	.....	.....
+	+	.....	.....	.....	.....	0	0	+	+	+	+	.....	.....

APPENDIX B—

SAND

TANK "C"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .002 C.C.
1911									
	.....	2.00	113	18,000	50	4,200	6	0	0
	.....	5.00	114	24,000	40	6,400	10	0	0
May 23.....	10.00	.....	115	31,400	67	7,900	10	0	0
	.....	1.00	start	24.466	52.3	6,166	8.6		
	.....	1.00	116	31,000	36	13,500	.....	0	0
	.....	5.00	117	41,000	139	4,600	30	+	+
	.....	5.00	stop	36,000	87.5	9.033	30		
	stopped	over holi	day abo	ut 39 ho	urs not	cleaned			
25.....	10.00	.....	start						
	10.00	.....	118	280,000	46	36,000	8	—	—
	.....	2.00	119	53,200	550	8,000	40	0	0
	.....	5.00	120	90,000	270	15,000	32	+	+
26.....	10.00	.....	stop	141,066	288.6	19,333	26.6		
	10.00	.....	121	10,800	280	900	42	0	0
	.....	5.00	122	10.000	121	3,000	15	0	0
								.001 C.C.	.002 C.C.
27.....	10.00	.....	123	15,500	90	2,200	11	0	0
	11.00	.....	cleaned	12,100	163.6	2,033	22.6		
	12.00	.....	124	20,000	130	7,300	28	0	0
29.....	12.00	.....	125	84,000	54	8,600	7	0	0
30.....	.....	2.00	start	52,000	92	7,950	17.5		
31.....	10.00	.....	126	13,400	220	2,400	31	0	0
	.....	1.00	127	120,000	380	10,700	44	0	+
	.....	5.00	128	—	120	—	54	0	0
June 1.....	10.00	.....	129	60,000	380	9,600	87	0	0
	.....	1.00	130	50,000	400	9,700	57	0	0
	.....	1.30	stop	60,850	300	8,100	50.6		
	.....	5.00	131	22,000	250	10,300	41	0	0
2.....	10.00	.....	132	28,000	220	8,000	20	0	0
	.....	2.00	133	19,000	175	3,300	18	0	0
	.....	2.30	cleaned	23,000	215	7,200	26.3		
	.....	5.00	134	300	225	400	20	0	0
3.....	10.00	.....	135	45,000	180	6,000	30	0	0
	.....	1.00	136	38,000	135	5,800	24	0	0
5.....	.....	2.30	start	27,766	180	4,066	24.6		
	.....	2.30	137	92,000	41	15,400	9	0	0
	.....	3.15	138	.....	230	.....	76		

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.05 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	.01 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
						.02							
0	0	0	0	.....	.....	0	0	—	+	+	+	+	+
+	+	.....	.....	.....	.....	.....	0	0	+	+	+	+	+
+	+	.....	.....	.....	.....	.....	.....	0	+	+	.....	+	+
+	+	.....	.....	.....	.....	.....	.....	0	—	+	+	+	+
+	+	.....	.....	.....	.....	0	0	+	+	+	.....	+	+
+	+	+	.....	.....	.....	.....	.....	0	+	+	.....	+	+
—	+	+	.....	.....	.....	—	—	+	+	+	.....	.....	.....
+	+	+	.....	.....	.....	—	—	+	+	+	.....	+	.....
0	0	0	.....	.....	.....	0	+	+	+	+	.....	.....	.....
+	—	.....	.....	.....	.....	0	0	—	+	+	.....	+	.....

.01 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	30 C.C.	50 C.C.
+	0	.....	.....	.....	.....	0	0	+	+	+	+	.....	.....
+	+	.....	.....	.....	.....	0	0	+	+	+	+	.....	.....
—	+	.....	.....	.....	.....	0	0	0	—	+	+	.....	.....
+	+	.....	.....	.....	.....	.....	0	+	+	+	+	.....	.....
+	+	.....	.....	.....	.....	.....	—	+	+	+	+	.....	.....
0	0	.....	.....	.....	.....	.....	0	+	+	+	+	.....	.....
0	+	.....	.....	.....	.....	.....	0	+	+	+	+	.....	.....
+	+	.....	.....	.....	.....	.....	+	+	+	+	+	.....	.....
+	+	.....	.....	.....	.....	.....	00	+	+	+	+	.....	.....
+	+	.....	.....	.....	.....	.....	0	+	+	+	+	.....	.....
—	—	.....	.....	.....	.....	.....	0	+	+	+	+	.....	.....
0	0	.....	.....	.....	.....	.....	0	+	+	+	.....	.....	.....
+	+	.....	.....	.....	.....	.....	0	—	+	+	.....	.....	.....
+	0	.....	.....	.....	.....	.....	0	—	+	+	.....	.....	.....
+	+	.....	.....	.....	.....	.....	0	0	+	+	.....	.....	.....
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APPENDIX B—

SAND

TANK "C"—RATE 5,000,000, GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .002 C.C.
1911									
	.....	3.25	139	.....	222	.....	84		
	.....	3.45	140	.....	225	.....	92		
	.....	3.45	141	.....	155	.....	86		
	.....	3.55	142	136,000	230	21,000	50	0	0
	.....	5.00	143	.....	430	.....	74		
June 6.....	11.00	.....	144	9,000	470	1,850	127		
	.....	1.00	145	12,000	460	2,400	160		
7.....	10.00	.....	146	1,500	150	90	37		
	.....	1.30	147	2,400	160	2,400	34		
	.....	5.00	148	2,400	106	900	40		
8.....	10.30	.....	stop	36,471	239.9	6291	72.4		
	10.30	.....	149	3,000	73	120	12		
	.....	1.00	150	270	90	36	43		
	.....	5.30	151	500	138	93	30		
9.....	12.00	.....	cleaned	1,256	100.3	83	28.3		
	.....	1.30	152	700	218	.....	13		
10.....	10.00	.....	start						
	10.00	.....	153	1,296	190	15	30		
	.....	1.00	154	1,160	70	2	21		
	.....	1.00	stop	1,228	130	8.5	25.5		
11.....	10.30		start						
12.....	10.30	.....	155	1,000	86	185	13		
	.....	1.00	156	830	60	64	6		
	.....	4.00	157	190	44	18	7		
13.....	10.00	.....	158	400	37	17	10		
	.....	12.00	159	280	40	18	10		
	.....	4.00	160	112	25	7	18		
14.....	11.00	.....	161	1,500	60	128	4		
	.....	2.30	162	13,500	40	1,600	18		
	.....	5.00	163	8,000	70	1,300	31		
15.....	11.00	.....	164	15,000	145	4,600	65	—	0
	.....	1.00	165	12,500	130	3,500	50	0	0
	.....	4.00	166	7,500	144	1,420	36	0	0
16.....	10.00	.....	167	12,000	82	580	34		
	.....	1.00	168	5,700	116	900	20	0	
	.....	5.00	169	13,500	97	2,200	18		
17.....	10.00	.....	170	3,000	72	300	16		
17.....	12.00	.....	stop	6,563	90.5	1,052	22.2		
19.....	11.00	.....	start						
	11.00	.....	171	14,000	30	600	11	0	0
	.....	1.30	172	1,700	117	300	22	0	0
	.....	1.30	stop	7,850	73.5	450	16.5		
20.....	10.00	.....	173	12,000	422	4,500	26	0	0
	12.00	.....	174	9,000	80	12,000	26	0	0
	.....	3.30	175	25,000	340	7,500	—	0	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	.01 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	25 C.C.	50 C.C.
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	-	.....	.....	.....	.....	.....	0	-	-	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	0	+	-	+	.....	.....	.....	0	+	-	-	.....	.....
.....	0	-	+	-	.....	.....	0	-	-	-	-	.....	.....
.....	.....	0	—	—	+	.....	0	0	+	+	-	.....	.....
0 +	+	-	.....	.....	.....	.....	0	-	+	-	+	.....	.....
.....	0	0	0	+	+	.....	0	0	+	-	-	.....	.....
.....	.....	0	+	-	+	.....	0	-	-	-	-	.....	.....
.....	.....	0	0	0	+	.....	0	—	-	-	-	.....	.....
.....	.....	0	—	0	+	.....	0	0	+	-	—	.....	.....
.....	.....	.....	0	—	+	.....	0	+	-	-	.....	+	.....
.....	.....	.....	0	0	0	.....	0	—	+	+	.....	+	.....
.....	.....	.....	0	0	+	.....	.....	0	-	-	+	.....	.....
.....	.....	.....	0	0	+	.....	.....	0	+	-	-	.....	.....
.....	.....	.....	0	0	0	.....	.....	+	-	+	-	.....	.....
.....	.....	.....	0	—	-	.....	.....	0	+	-	—	.....	.....
.....	.....	.....	0	0	0	.....	.....	0	-	-	-	.....	.....
.....	.....	.....	0	—	+	.....	.....	0	+	·	-	.....	.....
.....	.....	.....	0	0	0	.....	.....	0	+	-	-	.....	.....
.....	0	+	.....	+	+	.....	0	0	+	-	-	.....	.....
0	+	+	.....	.....	.....	.....	0	+	+	+	-	.....	.....
0	0	0	.....	.....	.....	.....	0 +	+	+	+	·	.....	.....
+	+	0	.....	.....	.....	.....	0	+	+	+	.....	.....	.....
0	0	+	.....	.....	.....	.....	0	—	+	-	.....	+	.....
0	0	+	.....	.....	.....	.....	0	—	+	+	.....	.....	.....
0	0	+	.....	.....	.....	.....	0—	+	+	+	.....	.....	.....
0	0	.....	.....	.....	.....	.....	0	-	-	-	.....	.....	.....
0	0	+	.....	.....	.....	.....	0	—	-	+	.....	.....	.....
0	0	+	+	.....	.....	.....	0	+	+	+	.....	.....	.....
0	0	.....	.....	.....	.....	.....	0	0	-	+	.....	.....	.....
0	0	0	+ -	+	.....	.....	0	+	+	-	.....	.....	.....
0	+	+	+	.....	.....	.....	0	+	+	+	.....	.....	.....
+	+	+	+	.....	.....	.....	0	0	+	+	.....	.....	.....
+	+	+	+	.....	.....	.....	0	0	+	+	.....	.....	.....

APPENDIX B—

SAND

TANK "C"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .002 C.C.
1911									
June 21.....	10.30	.....	176	20,000	200	2,350	0		
	.....	2.00	177	7,300	190	1,170	—		
	.....	4.00	raked	14,660	246.4	6,304	13		
		over and	started						
	.....	5.00	178	15,300	60	2,000	15		
22.....	.....	.....	stopped						
23.....	11.00	.....	start						
24.....	11.00	.....	stop						
26.....	10.30	.....	start						
	10.30	.....	179	11,400	14	3,200	2		0
	.....	2.00	180	18,000	145	6,000	36		
	.....	4.30	181	11,500	70	3,800	30		
27.....	10.00	.....	182	27,000	100	6,500	20		
	.....	3.00	183	12,500	100	4,000	12		
28.....	11.00	.....	184	18,000	230	8,500	180		+
	12.00	.....	185	22,600	420	9,300	145		0
	12.15	.....	186	31,000	310	8,500	96		
	12.45	.....	187	29,000	290	24,000	150		
	.....	1.00	188	—	310	11,200	88		
	.....	1.45	189	34,000	340	19,000	82		
	.....	2.00	190	30,000	300	18,500	54		0
28.....	.....	2.00	stop	20,416	219.0	10,208	74.5		
29.....	10.30	.....	start						
	10.30	.....	191	300,000	160	6,000	25	+	+
	.....	2.30	192	200,000	1,350	7,000	50		+
	.....	3.30	193	300,000	1,430	5,100	50	+	+
30.....	10.00	.....	stop	266,666	980	6,033	41.6		
	10.00	.....	194	120,000	620	6,000	38	+	+
	.....	12.30	195	88,000	710	3,100	16	+	+
July 3.....	10.00	.....	196	90,000	78	650	5	0	0
	12.00	.....	197	300	53	5,000	3	0	0
	.....	4.00	raked	74,575	365.2	3,687.5	15.5		
	.....	5.00	198	300	1,300	600	54		
4.....	10.00	.....	start						
	12.30	.....	199	7,300	520	1,000	36		
	.....	4.00	200	1,200	100	600	19		
5.....	10.00	.....	201	1,600	135	100	10	0	0
	.....	1.00	202	1,300	85	150	6	0	0
	.....	5.00	203	7,600	70	3,500	11	0	0
6.....	10.00	.....	stop	3,800	182	1.070	16.4		
	.....	1.00	start						
	.....	1.00	204	850	76	300	17	0	0
	.....	2.00	205	2,300	200	1,200	42	0	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	30 C.C.	50 C.C.
0	0	+					0	+	+	+			
0	0	+	+	+			0	—	+	+			
—	+	+					0	0	+	+			
+	+	+					0	+	+	+			
+	+	+					0+	+	+	+			
—	+	+					+	+	+	+			
+	+						0	+	+	+			
0	+						0	+	+				
+	+							+	+	+			
						.05 C.C.							
+	+	+				+	+	+	+	+			
+	+					0	0	+	+				
+	0					0	+	+	+				
+	+					0	+	+	+				
+	+					0	0	+	+				
+	+					0	0	+	+				
0	+	+				0	0	+	+				
0	0					0	0	0	0				
0	0					0	0	0	0				
0	0					0	0	+	+				
0	+					0	0	+	+				
0	0					0	0	0	+				
0	0					0	0	0	+				

APPENDIX B—

SAND

TANK "C"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .002 C.C.
1911									
	.....	5.00	206	2,400	107	100	20	0	0
July 7.....	10.00	.....	207	1,340	76	380	18	0	0
	.....	2.00	208	2,700	51	930	23	0	0
	.....	5.00	stop	1,918	102	582	24		
10.....	.....	1.00	209	8,100	12	1,840	6	0	0
11.....	10.00	.....	210	.....	—	270	.....	0	0
	.....	12.00	211	1,740	56	300	56	0	0
	.....	4.00	212	.....	—	150	26		
12.....	10.00	.....	start	4,920	34	640	24.7	.....	.....
	10.00	.....	2.13	1,200	.....	25	30	.....	.....
		1.00	2.14	300	234	5	30	.....	.....
		5.00	2.15	70	55	7	12	.....	.....
13.....	10.00	2.16	.....	20	40	24	11	.....	.....
		1.00	2.17	800	45	1,400	1	0	—
		1.00	stop	478	93.5	292.2	16.8		

TANK "C"—RATE, 10,000,000 GALLONS

14.....	10.30	.....	start	.....	.....	.....	.....	.....	.....
	10.30	.....	2.18	6,000	176	3,500	26	.....	.....
	12.00	.....	2.19	8,000	75	3,000	16	0	0
	.....	5.00	2 20	2,400	120	1,400	84	.....	.....
15.....	10.00	.....	2.21	500	68	100	72	0	0
	10.00	.....	stop	4,225	109.7	2,000	49.5	.....	.....
17.....	10.00	.....	2.22	200	56	11	6	.....	.....
		5.00	2.23	700	.....	113	.....	.....	.....
18.....	10.20	.....	start	450	56	62	6	.....	.....
		cleaned	before	hand ?					
	10.20	.....	2.24	40	300	4	9	.....	.....
	10.35	15	2.25	.....	.....	.....	16	.....	.....
	10.55	35	2.26	.....	.....	.....	102	.....	.....
	11.15	55	2.27	.....	.....	.....	34	.....	.....
	11.45	85	2.28	.....	.....	.....	12	.....	.....
	12.00	1.00	2.29	.....	27	.....	5	.....	.....
	12.45	1.45	2.30	.....	.....	.....	5	.....	.....
	1.60	1.00	2.31	20	.....	3	6	.....	.....
	.....	1.30	2.32	.....	.....	.....	4	.....	.....
	.....	2.00	2.33	.....	.....	.....	1	.....	.....
	.....	3.00	2.34	.....	.....	.....	4	.....	.....
	.....	4.00	2.35	.....	44	.....	8	.....	.....
	.....	5.00	2.36	282	40	1	7	.....	.....
18.....	.....	5.00	stop	114	102.7	2.6	16.1	.....	.....

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	.02 C.C.	.1 C.C.	1.0 C.C.	5 C.C.	10 C.C.	20 C.C.	30 C.C.	50 C.C.
0	0	.....	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
+	+	.....	.....	.....	.....	0	0	+	+	+	.....	.....	.....
+	+	.....	.....	.....	.....	0	0	+	+	-	.....	.....	.....
+	+	.....	.....	.....	.....	0	0	0	+	+	.....	.....	.....
0	+	.....	+	+	.....	0	0	+	+	—	.....	.....	.....
+	0	.....	-	+	.....	.....	.....	.....	.....	.....	.....	.....	.....
—0	.....	+	+	+	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	0	0	—	—	+	.....	0	+	+	.....	.....	.....	.....
.....	0	0	—	+	+	.....	0—	+	+	.....	.....	.....	.....
0	0	0	.....	—	—	.....	0	—	—	.....	.....	.....	.....
0	0	0	0	0	-	.....	0	0	+	.....	.....	.....	.....
+	+	+	+	.....	.....	0	—	—	—	-	.....	.....	.....

PER ACRE PER DAY.

.....	.....	.....	+	+	+	0	+	+	.....	.....	.....	.....	.....
+	+	+	+	.....	.....	0	+	+	.....	.....	.....	.....	.....
0	+	+	+	.....	.....	0		+	-	.....	.....	.....	.....
.....	0	0	.....	.....	.....	0	—	+	.....	.....	.....	.....	.....
0	0	0	0	0	-	0	+	+	+	.....	.....	.....	.....
.....	.....	0	+	-	-	0	0	+	+	.....	.....	.....	.....
0	0	0	0	0	0	.....	—0	+	+	.....	.....	.....	.....
0	0	0	0	+	+	.....	0	0	+	.....	.....	.....	.....
0	0	0	0	+	+	.....	.....	.....	.....	.....	.....	.....	.....

APPENDIX B—

SAND

TANK "C"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .002 C.C.
1911									
July 19.....	10.00	.....	start					.....	.....
	10.00	.....	237	1,300	103	370	5	.....	+
	12.00	.....	238	4,000	60	2,600	12	0	0
	.....	5.00	239	6,400	45	3,000	17	0	+
20.....	10.00	.....	240	10,500	50	2,340	13	0	0
	.....	2.00	241	9,500	42	2,000	7	0	.....
21.....	10.00	.....	242	7,500	29	1,700	4	0	.....
22.....	12.00	.....	243	900	44	500	23		
	.....	1.00	244	13,500	35	7,100	15	0	.....
24.....	10.00	.....	245	6,700	31	1,500	14		
								.....	.....
	10.00	.....	stop	6,600	48.7	2,345	12.2		
	.....	2.00	raked						
25.....	10.00	.....	start						
								+	+
	10.00	.....	246	22.400	240	9,300	105		
	10.10	.....	247	.....	.....	.....	105		
	10.20	.....	248	.....	.....	.....	70		
	10.35	.....	249	.....	.....	.....	194		
	11.30	.....	250	.....	.....	.....	102		
	11.30	.....	stopped	appara	tus				
	.....	3.00	start						
	.....	3.00	251	.....	170	.....	97	0	0
	.....	5.00	252	10,000	200	2,300	14	—	+
26.....	10.00	.....	253	46,600	50	30,000	22	—	0
	.....	1.00	254	44,000	65	26,000	—	+	+
	.....	5.00	255	28,000	66	12,000	25	+	0
27.....	10.00	.....	256	13,000	100	4,000	40	0	+
	12.00	.....	257	9,700	125	2,700	32	0	0
	.....	5.00	258	7,000	85	900	20	0	0
28.....	10.00	.....	259	4,700	110	1,800	22	0	0
	.....	1.00	260	4,500	98	1,800	15	0	0
	.....	6.00	261	3,500	70	1,600	28	0	0
29.....	10.00	.....	262	3,300	64	800	24	0	0
	.....	5.00	263	2,200	56	300	15	0	0
31.....	10.00	.....	264	1,300	47	800	14		
	10.00	.....	stop	12,729	102.4	6,735.	52.6		
	.....	2.00	raked						
Aug. 1.....	10.00	.....	start						
	10.00	.....	265	9,000	144	1,500	20	0	0
	.....	1.00	266	19,000	60	3,300	21	0	0
2.....	10.30	.....	267	17,000	52	3,860	22	—	—
	.....	1.00	268	12,000	67	2,080	21	.....	0
	.....	5.00	269	12,000	57	3,200	20	0	+
3.....	10.00	.....	270	24,000	57	4,700	26	0	0
	.....	2.00	271	21,000	60	4,000	15	0	0
	.....	6.00	272	67,000	66	4,700	15	0	+
4.....	11.00	.....	273	72,000	42	—	12	0	0
	.....	1.00	274	42,000	46	2,200	11	0	0
	.....	4.30	275	17,000	43	3,000	21		

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	.02 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	20 C.C.	30 C.C.	50 C.C.
0	+	+	+	+	+	.....	0	+	+	+	.....	.....	.....
+	+	+	+	.....	.....	.....	0	+	+	+	.....	.....	.....
+	+	+	+	.....	.....	.....	0	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	.....	0	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	.....	0	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	.....	0 +	+	+	.....	.....	.....	.....
0	0	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
+	+	.....	.....	.....	.....	.....	0	+	+	.....	.....	.....	.....
						.05 C.C.							
+	+	.....	.....	.....	.....	0	—	+		.....	.....	.....	.....
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+	0	.....	.....	.....	.....	0	0	—	+	.....	.....	.....	.....
+	.....	.....	.....	.....	.....	+	+	+	+	.....	.....	.....	.....
+	.....	.....	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
+	.....	.....	.....	.....	.....	—	+	+	+	.....	.....	.....	.....
+	.....	.....	.....	.....	.....	0	0	—	+	.....	.....	.....	.....
+	.....	.....	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
0	.....	.....	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
0	0	.....	.....	.....	.....	0	0	—	+	.....	.....	.....	.....
0	0	.....	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
0	0	.....	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
—	+	+	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
0	0	+	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
+	0	+	+	.....	.....	0	0	+	+	.....	.....	.....	.....
—	+	+	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	+	+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
+	0	+	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
0	+	+	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	0	—	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	0	+	+	+	.....	.....	.....	.....
+	+	+	.....	.....	.....	+	+	+	+	.....	.....	.....	.....
0	0	+	.....	.....	.....	0	0	+	+	.....	.....	.....	.....

APPENDIX B—

SAND

TANK "C"—RATE, 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour.		Serial No.	Bacterial Counts.				Influent.	
	A.M.	P.M		18°–22°C.		37.5°C.			
				Inf.	Eff.	Inf.	Eff.	.001 C.C.	.002 C.C.
1911									
Aug. 5.....	10.00	.....	276	200,000	40	15,000	8	+	+
9.....	.....	4.00 and	stopped scraped	42,666	61.1	4,322	17.6		
10.....	11.10	.....	start						
	11.10	.....	277	30,000	280	10,000	26		
	11.20	.....	278	.....	.....	.....	12		
	11.30	.....	279	.....	.....	.....	16		
	11.40	.....	280	.....	.....	.....	30		
	11.50	.....	281	.....	.....	.....	26		
	12.00	.....	282	30,000	88	10,000	18		0
10.....	12.15	.....	283	.....	.....	.....	20	.....	.....
	12.30	.....	284	.....	.....	.....	20	.....	.....
	12.45	.....	285	.....	.....	.....	10	.....	.....
	.....	1.30	286	.....	.....	.....	6	.....	.....
	.....	2.00	287	.....	.....	.....	9	.....	.....
	.....	2.30	288	.....	.....	.....	10	.....	.....
	.....	3.30	289	.....	.....	.....	5	.....	.....
	.....	4.30	290	7,500	67	3,300	11	0	0
11.....	10.00	.....	291	12,000	110	2,000	33	.....	0
				19,875	136.2	6,325	16.8		

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	.05 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	20 C.C.	30 C.C.	50 C.C.
−	+	+	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
—	+	+	+	.....	.....	0	0	+	+				
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
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—	+	+	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
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0	+	0	.....	.....	.....	0	0	+	+	.....	.....	.....	.....
0	+	+	.....	.....	.....	0	0	+	+	.....	.....	.....	.....

APPENDIX B—

SAND

TANK "D"—RATE, 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. .001 C.C.	Influent. .002 C.C.
March 16.....	10.00	.....	1	96	24	.....	11	.....	0
	.....	1.00	2	32	19	.....	15	.....	.....
17.....	10.00	.....	.....	85	18	19	—	0	0
18.....	10.00	.....	.....	120	48	20	18	+	+
				83	27	20	15		
23.....	.....	5.00	1	85	370	47	170	0	00
25.....	.....	1.00	2	80	57	30	8	0	00
27.....	.....	5.00	3	472	530	38	7	0	00
28.....	10.00	.....	4	high	290	60	5	0	0
	.....	5.00	5	6.000	200	58	6	0	00
29.....	10.00	.....	6	243	13	50	7	0	00
	.....	5.00	7	150	73	40	8	0	00
30.....	10.00	.....	8	257	.....	.....	.....	0	00
	.....	5.00	9	151	6	96	6	0	00
31.....	11.00	.....	10	9,600	150	136	7	0	++
	.....	5.00	11	670	180	166	80	0	++
April 1.....	10.00	.....	stop	1,771.	1,869	72.1	30.4		
	orifice	box calib	rated						
	10.00	.....	12	960	24	78	12	0	00
5.....	11.00	.....	start	after	cleaning				
5.....	.....	5.00	15	109	80	40	8	0	00
6.....	10.00	.....	16	131	2	64	1	0	00

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
.01 C.C.	.02 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	.05 C.C.	.1 C.C.	1 C.C.	5 C.C.	10 C.C.	20 C.C.	30 C.C.	50 C.C.
0	00	00	.....	.....	.....	.....	.....	00	0+	00	.....	.....	.....
		00								00			
.....	.....	00	.....	.....	.....	.....	.....	0	.....	00	.....	.....	.....
0+	++	++	.....	.....	.....	.....	.....	.....	00	00	.....	.....	.....
++	++	++	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
00	.....	0	+	.....	+	.....	.....	.....	.....	.....	.....	.....	.....
00	.....	+	+	.....	0	.....	.....	.....	.....	.....	.....	.....	.....
00	.....	0	0	.....	+	0	0	0	.....	0	0	.....	00
0	.....	0	+	.....	+	0	0	0	.....	.....	00	.....	00
00	.....	0	0	.....	+	0	0	0	.....	—	0	.....	000
00	.....	0	.....	.....	—	.....	.....	.....	.....	.....	0	.....	000
00	.....	0	+	.....	+	.....	.....	.....	.....	.....	0	.....	000
+0	.....	.....	+	.....	+	0	0	0	.....	.....	0	.....	00
0—	.....	0	0	.....	0	0	0	0	.....	0	.....	.....	00
++	.....	+	.....	.....	+	.....	.....	.....	.....	00	.....	.....	0—
++	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
00	.....	0	.....	.....	0	.....	.....	0	.....	00	.....	.....	00
00	.....	0	—	.....	0	0	0	0	.....	.....	0	.....	+0
00	.....	.....	—	.....	0	0	0	0	.....	.....	0	.....	00

APPENDIX B—

SAND

TANK "D"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. 1 C.C.	Influent. 5 C.C.
1911									
April 7.....	10.30	.....	17	130	.....	54	7	0	0
.....	.....	5.00	18	48	5	24	5	0	0
8.....	.....	1.00	19	43	5	.....	3	0	00
10.....	11.30	.....	20	73	6	16	1	0	00
.....	.....	5.00	21	60	1	31	1	0	0
11.....	10.00	.....	22	53	15	33	.....	0	0
.....	.....	5.00	23	187	21	.....	4	0	0
12.....	11.00	.....	24	75	15	38	3	0	0
12.....	.....	5.30	stop	91.0	16.6	37.5	3.66		
.....	.....	5.30	25	high	21	33	3		
13.....	.....	5.00	26	40	6	21	4		
17.....	10.00	.....	29	500	180	20	2	0	0
.....	.....	1.00	30	170	6	14	24	0	0
.....	.....	5.00	31	190	35	19	1	0	0
18.....	10.00	.....	32	132	47	10	2	0	0
	11.00	.....	cleaned	206	49.1	19.5	6.		
.....	.....	1.00	33	91	—	9	—	0	0
.....	.....	3.00	start						
.....	.....	5.00	34	14	5	—	3		
19.....	10.00	.....	35	425	22	20	0	0	0
.....	.....	1.00	36	480	3	10	1		
.....	.....	5.00	37	48	2	16	19		0
20.....	10.30	.....	38	176	3	25	1	0	0
.....	.....	5.00	39	31	2	18	4	0	0
21.....	10.00	.....	40	400	17	12	2	0	0
.....	.....	2.00	41	135	10	16	3	0	0
.....	.....	5.00	42	114	11	7	14		
22.....	10.00	.....	43	223	5	25	14	0	0
.....	.....	2.30	44	87	1	11	5	0	0
24.....	10.00	.....	stop	185.3	7.4	15.1	6		
	10.00	.....	45	150	5	21	2	0	0
.....	.....	2.30	46	80	2	18	0	0	0
.....	.....	5.00	47	140	5	26	1	0	0
25.....	10.00	.....	48	310	52	36	5	0	0
	11.00	.....	cleaned	170	16	25	2		
	2.00	2.00	start						
.....	.....	5.00	49	140	5	26	—	0	0
26.....	10.00	1.00	50	360	6	21	1	0	0
	11.20	.....	51	110	9	17	6	0	0
.....	.....	5.00	52	116	16	13	5	0	0
27.....	10.00	.....	53	212	15	27	2	0	0
.....	.....	1.30	54	170	13	25	4	0	0
.....	.....	5.00	55	124	2	11	1	0	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
0	.....	.....	0	.....	0	0	0	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	00
00	.....	0	.....	.....	00	.....	0	0	.....	.....	0	.....	00
00	.....	0	.....	.....	00	.....	0	.....	.....	.....	0	.....	00
0	.....	0	.....	.....	00	.....	.....	.....	.....	.....	0	.....	00
0	.....	0	.....	.....	00	.....	0	.....	.....	.....	00	.....	+0
0	.....	+	.....	.....	00	.....	.....	0	.....	.....	0	.....	00
0	.....	0	.....	.....	00	.....	0	0	.....	.....	0	.....	0+
.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	.....	00
0	.....	0	.....	.....	00	.....	0	.....	.....	.....	0	.....	00
0	.....	0	.....	.....	00	.....	0	0	.....	.....	0	.....	00
.....	.....	0	.....	.....	00	.....	0	.....	.....	.....	0	.....	00
0	.....	0	.....	.....	+0	0	0	0	.....	.....	0	.....	00
0	.....	0	.....	.....	00	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	0	.....	.....	0+	0	0	0	.....	.....	0	.....	00
0	.....	0	.....	.....	++	0	0	0	.....	.....	0	.....	00
.....	.....	.....	.....	.....	.....	.....	0	0	.....	.....	0	.....	00
0	.....	+	.....	.....	0	.....	0	.....	.....	.....	0	.....	0
0	.....	0	.....	.....	.....	0	0	0	.....	.....	0	.....	00
0	.....	0	.....	.....	0+	0	0	0	.....	.....	0	.....	00
0	.....	0	.....	.....	00	0	0	0	.....	.....	0	.....	00
0	.....	0	.....	.....	0+	.....	0	0	.....	.....	0	.....	00
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.....	.....	0	.....	.....	00	0	0	0	.....	.....	0	.....	00
0	.....	0	.....	.....	00	0	0	0	.....	.....	0	.....	00
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	00
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0	.....	0	.....	.....	0..	.....	.....	.....	.....	.....	0	.....	00
0	.....	0	.....	.....	0+	0	0	0	0	.....	0	.....	0
0	.....	0	.....	.....	D ——	0	0	0	.....	.....	0	.....	00
0	.....	0	.....	.....	D ——			0	0	.....	0	.....	00
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0	.....	D —	.....	.....	D ——	.....	.....	.....	.....	.....	0	.....	00
0	.....	0	.....	.....	——	.....	.....	.....	0	.....	0	.....	00
0	.....	0	.....	.....	——	.....	.....	.....	0	.....	0	.....	00
0	.....	0	.....	.....	00	.....	.....	0	.....	.....	0	.....	0

APPENDIX B—

SAND

TANK "D"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. 1 C.C.	Influent. 5 C.C.
1911									
April 28.....	10.00	.....	Orifice	box down to 3 in.					
	10.00	.....	56	268	42	30	2	0	0
	.....	2.30	57	210	155	40	2	0	0
	.....	5.00	58	270	14	24	4	0	0
29.....	10.00	.....	stop	198.0	27.7	23.4	3		
	10.00	.....	59	223	11	12	0		
	.....	2.00	60	115	4	20	13	0	0
May 1.....	10.00	.....	61	162	—	28	11	0	0
	12.00	.....	cleaned	166.6	7.5	20	8		
	.....	3. 0	start						
	.....	4.00	63	114	4	10	6	0	0
2.....	10.30	.....	64	3,200	8	340	3	0	0
2.....	.....	4.00	65	210	4	21	7	0	0
3.....	10.30	.....	66	300	7	16	2	0	0
	.....	2.00	74	120	1	13	—	0	0
	.....	5.00	77	66	3	10	5		
4.....	12.00	.....	78	172	7	17	2	0	0
	.....	5.00	80	164	3	9	3	0	0
5.....	12.00	.....	81	164	44	8	1	0	0
	.....	5.00	82	240	12	40	3	0	0
6.....	10.00	.....	83	1,900	5	—	—	0	0
	.....	12.00	84	300	4	9	4	0	0
8.....	10.00	.....	stop	580.	8.5	44.8	3.6		
9.....	10.00	.....	85	180	infect	63	infect	0	0
	.....	2.30	86	87	25	11	3	0	0
	.....	5.00	87	147	8	13	4	0	0
10.....	12.00	.....	88	140	15	6	—	0	0
	.....	4.20	ran at	full rate till 10.00 a.m., 10th.					
				138.5	16	23.2	3.5		
	.....	5.00	89	103	35	11	9	.....	+
11.....	10.00	.....	stop start	cleaned	started	at 1.00	p.m.		
	10.00	.....	1 p.m. 90	185	3	15	5	0	0
	.....	2.30	91	112	12	5	4	0	0
	.....	5.00	92	103	128	11	4	0	0
12.....	11.00	.....	93	45	26	9	—	0	0
	.....	5.00	94	150	33	14	10	0	0
13.....	10.00	.....	95	120	8	6	1	0	0
	.....	2.30	96	70	8	4	1	0	0
15.....	9.00	.....	stop	112.1	31.1	9.1	4.1		
16.....	10.00	.....	97	210	5	10	2	.....	0
	.....	2.30	98	cleaned	at 3.30	p.m.			
				320	4	12	2	.....	0
	.....	4.30	99	225	70	7	9	0	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
0	.....	+	.....	.....	+	0	0	0	.....	.....	0	.....	00
+	.....	0	.....	.....	+	.....	0	0	.....	.....	+	.....	+
0	.....	0	.....	.....	0	.....	0	.....	.....	.....	0	.....	00
0	.....	0	.....	.....	0	0	0	0	.....	.....	0	.....	00
0	.....	0	.....	.....	—0	0	0	0	.....	.....	0	.....	00
0	.....	0	.....	.....	00	0	0	0	.....	.....	0	.....	00
0	.....	0	.....	.....	00	0	0	0	.....	.....	0	.....	00
+	.....	.....	.....	.....	+ —	0	0	0	.....	.....	0	.....	00
0	.....	0	.....	.....	0	0	0	0	.....	.....	0	.....	00
0	.....	0	.....	.....	0—	0	0	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....
+	.....	.....	.....	.....		0	0	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	0	0	0	.....	.....	0	.....	0
+	.....	0	.....	.....	0	.....	.....	.....	.....	.....	0	.....	00
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	0	.....	0
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0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
+	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	0	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
+	.....	+	.....	.....	0	.....	.....	0	.....	.....	0	.....	00
0	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	0	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	0	0	.....	.....	0	.....	00
0	.....	0	.....	.....	0	.....	0	0	.....	.....	0	.....	00
0	.....	0	.....	.....	0	.....	0	0	.....	.....	0	.....	00

APPENDIX B—

SAND

TANK "D"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. 1 C.C.	Influent. 5 C.C.
1911									
May 17.....	9.00	.....	start	251.6	26.3	9.6	4.3		
	11.00	.....	100	300	2	9	0	0	0
	.....	2.30	101	700	1	11	1	0	0
	.....	5.00	102	400	10	3	1	.....	0
18.....	11.00	.....	103	130	3	9	0	.....	.....
	.....	2.00	104	225	0	12	1	.....	.....
19.....	10.00	.....	105	250	11	25	7	.....	0
	10.20	.....	stop	334.1	4.5	11.5	1.7		
	.....	1.30	106	73	16	10	0	.....	0
	.....	5.00	107	195	11	3	1	.....	.....
20.....	10.00	.....	108	190	24	22	6	0	0
	.....	1.00	109	1,600	8	700	4	+	+
22.....	10.00	.....	cleaned	514.5	14.7	183.7	2.7		
	12.00	.....	start						
	.....	2.00	110	.....	.....	9	0	0	0
	.....	5.00	111	650	11	3	5	0	0
23.....	10.00	.....	112	770	3	10	2	0	0
	.....	1.00	113	300	5	20	2	0	0
	.....	5.00	stopped	36 hours 573.3	over 6.3	holiday 10.5	2.2		
25.....	10.00	.....	start						
	.....	2.00	114	340	3	12	5	0	0
	.....	5.00	115	150	32	3	.....	0	0
26.....	10.00	.....	116	30,000	16	140	4	0	0
	.....	1.00	stop	10,163	17	51.6	4.5		
	.....	5.00	117	100	15	33	0	0	0
27.....	10.00	.....	118	60	6	—	2	0	0
	.....	12.00	119	20	30	5	2	0	0
29.....	10.00	.....	120	120	34	4	4	0	0
	12.00	.....	121	140	45	9	14	0	+
	.....	2.00	cleaned	88	26	12.7	4.4		
	.....	4.00	start						
31.....	10.00	.....	122	90	7	9	0	0	0
	.....	1.00	123	400	4	10	1	0	0
	.....	5.00	124	40	1	1	3	0	0
June 1.....	10 00	.....	125	540	2	14	3	0	0
	.....	4.00	126	40	6	—	0	0	0
2.....	10.00	.....	127	256	5	10	1	—	—
	.....	2.30	128	500	2	5	1	0	—
	.....	5.00	129	800	5	4	—	0	0
3.....	10.00	.....	130	170	2	6	—	.....	0
3.....	.....	1.00	131	151	6	6	7	0	0
	.....	1.00 over we	shut off ek end	298.7	4.0	7.2	2.3		

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
0	.....	0	.....	.....	0	0	0	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	00
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	00
.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	00
0	.....	—	.....	.....	0	.....	.....	0	.....	.....	0	.....	00
0	.....	0	.....	.....	0	.....	0	0	.....	.....	0	.....	0
+	.....	+	.....	.....	+	.....	0	—	.....	+	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	0	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	0	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	0	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	0	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	0	.....	.....	0
0	.....	0	.....	.....	00	.....	.....	0	.....	0	.....	.....	0
+	.....	+	.....	.....	+	.....	.....	0	.....	0	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	0	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	0	.....	.....	0
0	.....	+	.....	.....	0	.....	.....	.....	.....	00	.....	.....	.....
0	.....	0	.....	.....	0	.....	.....	0	.....	0	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	0	.....	.....	0
0	.....	0	.....	.....	—	.....	.....	0	.....	0	.....	.....	0
0	.....	0	.....	.....	—	.....	.....	0	.....	0	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	0	.....	.....	0
0	.....	.....	.....	.....	.....	.....	.....	0	.....	0	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	0	.....	.....	0
—	.....	+	.....	.....	+	.....	.....	0	.....	0	.....	.....	0
—	.....	—	.....	.....	+	.....	.....	0	.....	0	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	0	.....	.....	0	.....	.....	0	.....	0	.....	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0

APPENDIX B—

SAND

TANK "D"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. 1 C.C.	Influent. 5 C.C.
1911									
June 5.....	.....	2.30	start						
	.....	2.30	132	360	16	10	1		+
6.....	11.00	.....	133	185	8	9	1	0	+
	.....	1.00	134	150	1	28	5	0	+
7.....	10.00	.....	stop	231.6	8.3	15.6	2.3		
	10.00	.....	135	50	10	12	2	0	0
	.....	1.00	136	146	5	11	0	0	0
	.....	5.00	137	11	3	2	3	0	+
8.....	10.00	.....	138	26	3	7	2	0	0
	.....	1.00	139	94	4	8	9	0	0
	.....	5.30	140	73	13	6	—	0	0
9.....	.....	1.00	cleaned	66.6	6.3	7.6	3.2		
10.....	10.00	.....	start						
	10.00	.....	141	50	6	6	4	0	0
	.....	1.00	142	58	9	5	3	0	0
	.....	1.00	stop	54	7.5	5.5	3.5		
11.....	10.30	.....	start						
12.....	10.30	.....	143	480	8	10	4	0	—
	.....	1.00	144	344	0	18	3	0	0
	.....	4.00	145	190	2	9	3	0	0
13.....	10.00	.....	146	270	6	15	3	0	—
	.....	12.00	147	240	7	8	2	—	—
	.....	4.00	148	100	5	16	—	0	0
14.....	11.00	.....	149	330	8	10	2	0	+
	.....	2.30	150	165	14	6	2	0	—
	.....	4.00	151	150	2	4	2	0	0
15.....	11.00	.....	152	210	4	16	0	—	—
15.....	.....	1.00	153	93	2	13	4		
	.....	4.30	154	150	100	7	—	0	+
16.....	10.00	.....	155	400	—	19	2	0	—
	.....	1.00	156	430	40	7	1		
	.....	5.00	157	260	75	13	2	0	0
17.....	10.00	.....	158	500	19	5	4	0	0
	stop over	r week	end	257.0	19.4	11.	2.4		
19.....	11.00	.....	start						
	11.00	.....	159	1,360	2	16	6	0	0
	.....	1.30	160	13	0	2	1	0	0
20.....	10.00	.....	stop	686.5	1	9	3.5		
	10.00	.....	161	64	8	9	.....	0	+
	12.00	.....	162	60	21	1	.....		
	.....	3.30	163	480	60	10	.....	0	+
21.....	10.30	.....	164	110	21	16	1		
	.....	2.00	scraped	178.5	27.5	9	1		
	.....	2.00	165	—	1	—	0	0	0
	.....	5.00	166	10	6	—	2		
26.....	10.30	.....	start	10	35.5	—	1		

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
+	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	—	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
+	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
—	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	—	.....	.....	0	.....	.....	0	.....	0
—	.....	—	.....	.....	—	.....	.....	0	.....	.....	0	.....	0
+	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
—	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
—	.....	—	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
+	.....	+	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
—	.....	—	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	.....	0
+	.....	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	.....
+	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	0	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
+	.....	—	.....	.....	—	.....	.....	0	.....	.....	0	.....	0
+	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	.....	0
+	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	.....	0
0	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	.....	0

APPENDIX B—
SAND

EXPERIMENTAL STATION. TANK "D"—RATE 5,000,000 GALLONS

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°-22°C. Inf.	18°-22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. 1 C.C.	Influent. 5 C.C.
1911									
June 26.....	10.30	.....	167	144	5	8	3	0	+
.....	.....	12.30	stop						
.....	.....	2.00	168	200	14	11	5	0	0
.....	.....	4.30	169	66	9	5	7	0	0
27.....	10.00	start	.....	133	11.5	8	6		
	10.00	.....	170	325	7	10	1	0	+
28.....	11.00	.....	171	320	7	37	2	0	+
	12.00	.....	172	150	7	5	1	0	+
	12.00	.....	stop	265	7	17.3	1.3		
.....	.....	2.00	173	—	7	—	—		
29.....	10.00	.....	174	212	28	8	5	0	+
				212	17.5	8	5		
29.....	10.00	.....	start	.....	.....	.....	.....	.....	.....
	12.00	.....	stop	.....	.....	.....	.....	.....	.....
.....	.....	2.30	175	320	8	10	0	0	0
30.....	10.00	.....	176	166	20	2	2	0	0
	12.30	.....	177	190	10	1	2	0	0
July 3.....	10.00	.....	178	500	10	8	3	0	+
	10.00	.....	start	294	12	5.25	1.75		
	12.00	.....	179	20	3	9	2	0	+
.....	.....	5.00	180	2	45	1	3	.....	.....
4.....	12.30	.....	181	76	4	5	4	.....	.....
.....	.....	4.00	182	300	1	0	2	.....	.....
5.....	10.00	.....	183	100	3	1	2	0	0
	12.00	.....	raked	99.6	11.2	3.2	2.6		
.....	.....	1.00	184	50	2	0	1	0	0
.....	.....	5.00	185	122	1	1	1	0	+
6.....	.....	1.00	start	86	1.5	.5	1		
.....	.....	1.00	186	93	16	0	2	0	0
.....	.....	2.00	187	95	—	0	.....	0	0
.....	.....	5.00	188	227	10	2	5	0	0
7.....	10.00	.....	189	560	6	100	1	0	0
.....	.....	2.00	190	660	22	151	5	0	0
10.....	.....	1.00	191	7	6	0	1	0	0
11.....	10.00	.....	192	8	—	1	0	0	0
.....	.....	12.00	193	—	2	1	0	0	+
.....	.....	4.00	194	—	—	1	0	0	0
12.....	10.00	.....	195	56	31	4	3	0	0
.....	.....	1.00	196	78	33	0	0	0	0
.....	.....	5.00	197	8	8	—	2	0	0
13.....	10.00	.....	198	60	71	17	—	0	+
.....	.....	1.00	199	46	60	5	1	0	—
14.....	10.30	.....	200	—	33	—	0	0	.....
.....	.....	5.00	201	6	53	2	9	0	0
17.....	10.00	.....	203	100	52	14	6	0	0
.....	.....	1.00	204	80	54	4	2	0	+
.....	.....	5.00	205	125	100.	9	0	.....	+
18.....	10.30	.....	206	20	28	2	2	0	0

Continued.
FILTERS.
PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
+	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
+	.....	+	.....	.....	+	.....	.....	+	.....	.....	+	.....	+
0	.....	—	.....	.....	0	.....	.....	0	.....	.....	0	.....	0
+	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
+	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
+	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	.....	0
+	.....	+	.....	.....	+	.....	.....	0	.....	.....	0	.....	0
+	.....	.....	+	.....	+	.....	.....	0	.....	0	.....	.....	0
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	.....	0	.....	0	.....	.....	0	.....	0	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	0	.....	0	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	0	.....	0	.....	.....	0
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	.....	0	.....	0	.....	.....	0	.....	0	.....	.....	0
0	.....	.....	0	.....	+	.....	.....	0	.....	0	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	0	.....	0	.....	.....	0
+	.....	.....	0	.....	+	.....	.....	0	.....	0	.....	.....	0
0	.....	.....	0	.....	0	.....	.....	0	.....	0	.....	.....	+
—	.....	.....	+	.....	+	.....	.....	0	.....	0	.....	.....	0
0	.....	.....	0	.....	+	.....	.....	0	.....	0	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	0	.....	0	.....	.....	0
0	.....	.....	0	.....	0	.....	.....	0	.....	0	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	0	.....	0	.....	.....	0
0	.....	.....	+	.....	+	.....	.....	0	.....	0	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	0	.....	0	.....	.....	0
0	.....	.....	0	.....	0	.....	.....	0	.....	0	.....	.....	0
0	.....	.....	+	.....	.....	.....	.....	0	.....	0	.....	.....	0
—	.....	.....	+	.....	+	.....	.....	0	.....	0	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	0	.....	0	.....	.....	0
+	.....	.....	+	.....	+	.....	.....	0	.....	.....	0	.....	+
0	.....	.....	.....	.....	.....	.....	.....	0	.....	.....	0	.....	0
0	.....	.....	0	.....	0	.....	.....	0	.....	.....	0	.....	0
0	.....	.....	0	.....	+	.....	.....	0	.....	.....	0	.....	0
+	.....	.....	+	.....	+	.....	.....	0	.....	.....	0	.....	0
+	.....	.....	+	.....	+	.....	.....	0	.....	.....	—	.....	—
—	.....	.....	—	.....	—	.....	.....	0	.....	.....	0	.....	0

APPENDIX B—
SAND

EXPERIMENTAL STATION. TANK "D"—RATE 5,000,000 GALLONS

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. 1 C.C.	Influent. 5 C.C.
1911									
July 18.....	12.00	.....	207	8	24	6	5	0	—
.....	.....	4.00	208	167	83	10	1	0	0
19.....	10.00	.....	209	17	46	1	4	0	0
	12.00	.....	210	400	32	173	4	0	0
	.....	4.00	211	88	52	5	5	0	0
20.....	10 00	.....	212	125	40	4	2	0	.....
.....	.....	2.00	213	90	15	4	4	0	+
21.....	10.00	.....	214	24	23	2	0	0	+
22.....	12.00	.....	215	305	11	5	12	0	0
.....	.....	1.00	216	250	14	3	19	.....	.....
23.....	10.00	.....	217	570	10	1	1	0	+
.....	.....	1.00	218	540	17	2	0	0	+
.....	.....	5.00	219	110	8	0	5	0	0
25.....	10.00	.....	220	480	5	39	17	0	0
.....	.....	1.00	221	154	7	5	2	0	0
.....	.....	5.00	222	120	6	4	2	+	0
26.....	10.00	.....	223	28	7	1	2	0	0
.....	.....	1.00	224	34	17	1	1	0	0
.....	.....	5.00	225	126	2	4	0	0	0
27.....	10.00	.....	226	100	5	1	3	0	0
.....	.....	1.00	227	110	4	—	1	0	0
.....	.....	5.00	228	37	6	1	1	0	0
28.....	10.00	.....	229	93	34	1	0	0	0
.....	.....	12.00	230	270	4	0	1	0	0
.....	.....	5.00	231	70	15	2	1	0	0
29.....	10.00	.....	232	33	4	3	3	0	0
	11.30	cleaned	raked	153.2	25.0	13.5	3.07		
	.....	4.00	start						
.....	.....	5.30	233	22	10	0	2	0	0
31.....	10.00	.....	234	150	—	1	1	0	0
.....	.....	12.30	235	116	4	2	2	0	0
.....	.....	5.00	236	35	2	1	1	0	0
Aug. 1.....	10.00	.....	237	380	15	3	1	0	0
.....	.....	1.00	238	180	5	1	3	0	0
2.....	10.30	.....	239	76	10	0	1	0	0
.....	.....	1.00	240	126	2	0	1	0	0
.....	.....	5.00	241	111	4	1	1	0	0
3.....	10.00	.....	242	800	9	6	4	0	0
.....	.....	2.00	243	400	20	0	1	0	0
4.....	11.00	.....	244	300	38	6	1	0	0
.....	.....	1.00	245	114	17	2	0	0	0
.....	.....	4.30	246	130	19	1	2	0	0
5.....	10.00	.....	247	200	10	0	0	0	0
8.....	10.00	.....	248	30	6	16	0	0	0
.....	.....	2.00	249	100	9	14	1	0	—
.....	.....	5.00	250	20	10	7	1	0	0
9.....	10.00	.....	251	134	10	2	2	0	0
.....	.....	1.00	252	67	2	0	1	0	0
.....	.....	4.30	253	2	1	2	0	0	0
10.....	11.00	.....	254	60	18	0	2		0
	12.00	.....	255	90	7	0	0	.....	.....
10.....	.....	4.30	256	52	1	0	0	0	0
11.....	10.00	.....	257	80	11	2	1	0	0
				150.6	99	2.6	1.1		

Continued.
FILTERS.
PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
—	.....	.....	+	.....	+	.....	.....	0	.....	.....	0	.....	0
+	.....	.....	+	.....	+	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	.....	0	.....	+	.....	.....	0	.....	.....	0	.....	+
0	.....	.....	+	.....	0	.....	.....	0	.....	.....	0	.....	0
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APPENDIX C.

EXPERIMENTAL STATION.

Sand Filters.—Appendix C.

Run Averages.

Tank A.—Twenty Million Gallons per Acre per Day.

Time Started	Time Stopped	Length of Run in Hours	Gallons Discharged per Run.	Average Bact. Effcy. per Run.	Remarks		
					Raw Water Count	Filtered Water Count	Weight
1909							
10.20 a.m., Sep. 15	10.15 a.m., Sep. 17	48.0	79,968	78.2	215	47.0	7
4.15 p.m., Sep. 17	11.00 a.m., Sep. 20	67.75	112,900	81.8	330	60.0	1
4.00 p.m., Sep. 20	9.30 a.m., Sep. 21	17.5	29,100	87.2	155	20.0	2
3.00 p.m., Sep. 21	9.00 a.m., Sep. 23	42.5	70,800	95.1	409.5	20.5	4
12.45 p.m., Sep. 23	11.30 a.m., Sep. 25	47.25	78,750	98.3	402	6.8	5
3.30 p.m., Sep. 25	3.00 p.m., Sep. 27	47.5	79,100	98.3	413	6.3	3
9.30 a.m., Sep. 28	9.30 a.m., Sep. 30	48.0	79,900	97.9	654	13.6	5
2.50 p.m , Sep. 30	10.50 a.m., Oct. 2	44.0	73,250	96.8	214	6.4	9
1.00 p.m., Oct. 2	12.00 a.m., Oct. 4	47.0	73,300	95.1	140	7.0	1
4.45 p.m., Oct. 4	3.00 p.m., Oct. 7	70.25	116,000	97.8	265.5	6.1	8
10.15 a,m., Oct. 8	7.00 a.m., Oct. 12	92.75	154,400	97.7	3742.0	10.8	7
12.45 p.m., Oct. 12	5.00 p.m., Oct. 15	77.25	128,600	94.1	290.2	17.1	10
12.30 p.m., Oct. 16	9.30 a.m., Oct. 19	69.5	115,800	97.4	169.6	4.6	3
3.30 p.m., Oct. 19	9.30 a.m., Oct. 21	41.5	69,200	95.4	1705.0	78.2	4
3.30 p.m., Oct. 26	3.00 p.m., Oct. 29	59.5	99,200	98.3	72.2	15.0	7
12.00 a.m., Oct. 30	10.00 a.m., Nov. 2	44.0	73,250	90.4	73.3	7.0	3
9.30 a.m., Nov. 5	9.30 a.m., Nov. 9	96.0	159,900	92.0	65.0	5.2	7
3.45 p.m., Nov. 9	9.30 a.m., Nov. 10	17.75	29,600	38.5	65.0	40.0	1
3.00 p.m., Nov. 10	4.00 p.m., Nov. 11	25.0	41,700	95.6	57.5	2.5	4
12.00 a.m., Nov. 12	9.30 a.m., Nov. 15	45.5	75,800	80.7	100.0	19.3	3
9.45 a.m., Nov. 23	3.00 p.m., Nov. 24	29.25	48,748	97.2	2728.0	75.4	5
4.30 p.m., Dec. 6	9.30 a.m., Dec. 7	17.0	28,332	.....	.....	.....	.....
Average length of run	.....	49.30	.....	.....	.....	.....	99
Average discharge	.....	.....	76,076	93.5	.....	.....	.....
Average bact. effcy.	.....	.....	.....	96.2	.....	.....	.....
Average raw water count.....	.....	.....	.....	.....	584.0	.....	.....
Average filtered water count.....	.....	.....	.....	.....	.....	22.2	.....

38,038,000 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

Sand Filters.—Appendix C.

Run Averages.

Tank A.—Five Million Gallons per Acre per Day.

Time started.	Time stopped	Length of run in hours	Gallons discharged per run	Average Bact. effcy. per run.	18°–22° Count.				
					Raw.		Filtered		Weight
					Av'ge	Max.	Av'ge	Max.	
1910									
4 p.m., Feb. 16	5 p.m., Feb. 18	49.0	20,400	84.7	725.5	940	111.0	320	7
12 a.m., Feb. 21	10 a.m., Mar. 7	334.50	139,300	83.3	903.5	4,900	150.6	860	33
5 p.m., Mar. 8	9 a.m., Mar. 29	496.00	20,700	91.6	868.0	3,980	73.0	358	36
10 a.m., Apr. 4	1 p.m., Apr. 9	122.50	51,100	84.1	73.2	240	11.6	105	16
1 p.m., May 4	5 p.m., May 18	340.0	141,600	93.7	91.5	230	5.9	25	28
11 a.m., May 21	10 a.m., May 26	119.0	49,600	98.75	44.2	147	.6	3	5
2 p.m., May 28	4 p.m., June 4	170.0	70,900	98.2	138.1	1,440	2.53	5	17
1 p.m., June 6	12 a.m., June 14	190.50	79,400	97.2	133.8	500	3.7	14	18
4 p.m., June 14	12 a.m., June 15	92.00	38,400	88.1	64.0	130	7.6	17	10
4 p.m., June 21	4 a.m., July 23	768.0	320,300	93.0	115.0	430	8.0	18	48
4 p.m., July 26	4 p.m., Aug. 23	672.0	280,100	94.5	94.7	436	5.1	33	39
12 a.m., Aug. 30	12 a.m., Sep. 12	312.0	129,900	85.7	244.7	1,440	35.1	156	27
2.45 p.m., Sep. 12	9.30 a.m., Sept. 30	426.75	177,800	96.7	323.6	2,000	10.7	60	21
5 p.m., Sep. 30	10 a.m., Oct. 22	521.00	217,100	95.7	277.1	1,200	12.0	70	18
	Averages ...	329.5	137,200	91.5	.....	.....	.....	.....	323

68,600 gallons per acre per run.

10 Mill. Gals. per Ac. per Day.

10 a.m., Oct. 24	5 p.m., Nov. 1	199.0	165,800	46,9	111.3	240	59.6	274	8
4 p.m., Nov. 8	4 p.m., Nov. 10	47.5	39,600	.....	93.5	186	1600.0	2,500	2
12 a.m., Nov. 4	9.30 a.m., Nov. 7	69.5	57,900	.....	101.0	150	108.5	200	2
	Averages ...	105.3	87,800	.....	.....	.....	.....	.....	.....

43,900,000 gallons per acre per run.

3 Mill. Gals. per Ac. per Day.

10 a.m., Nov. 12	5 p.m., Jan. 3	.....	.....	.....	32.6	458	273.6	3,000	30
" "	5 p.m., Dec. 1	463	116.700	.....	.....	.....	.....	.....	.....
4 p.m., Dec. 2	10 a.m., Dec. 15	306	76,500	.....	.....	.....	.....	.....	.....
3 p.m., Dec. 15	.....	.....	.....	.....	.....	.....	.....	.....	.....
		384.5	96.600	.....	.....	.....	.....	.....	.....
	Averages ...	.....	.....	.....	.....	.....	.....	.....	.....

48,300,000 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911.
Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

Sand Filters.—Appendix C.

Run Averages.

Tank A.—Five Million Gallons per Acre per Day.

Time started	Time stopped	Length of run in hours	Gallons discharged per run	Average bact. effcy. per run	18°-22°C Count				Weight
					Raw		Filtered		
					Av'ge	Max.	Av'ge	Max.	
1911									
12.45 a.m., Mar. 25	5.00 p.m., Apr. 5	268.25	107,000	60.7	9,500	30,000	3730	9,200	12
4.00 p.m., Apr. 6	1.00 p.m., Apr. 15	213	88,800	99.6	13,720	29,000	59	250	17
9.30 a.m., Apr. 20	10.00 a.m., Apr. 24	96.5	40,200	97.9	10,200	30,000	212	420	8
10.00 a.m., Apr. 26	1.00 p.m., Apr. 29	75	31,200	98.8	2,380	12,000	16.2	42	10
11.45 a.m., May 4	2.00 p.m., May 11	170.25	70,900	99.8	7,000	27,000	14.5	25	16
9.30 a.m., May 13	9.30 a.m., May 15	48	20,000	99.9	26,700	39,000	15	16	2
9.00 a.m., May 17	5.00 p.m., May 19	56	23,300	99.9	25,428	30,000	21.1	32	7
1.05 p.m., May 23	12.00 a.m., May 27	59	24,600	99.8	56,489	280,000	116.5	480	18
12.00 a.m., May 29	10.00 a.m., June 6	166	69,200	99.9	39,570	120,000	43.7	84	11
10.30 a.m., June 11	12.00 a.m., June 17	148.5	61,900	99.5	5,412	15,000	29.0	80	18
10.30 a.m., June 26	10.00 a.m., June 30	75.5	31,500	99.9	89,250	100,000	93.7	200	12
10.00 a.m., July 4	10.00 a.m., July 6	48.0	2,000	98.5	3,800	7,600	56.2	93	5
1.00 p.m., July 6	5.00 p.m., July 7	28	11,700	97.5	1,918	2,700	48.8	78	5
10.00 a.m., July 12	10.00 a.m., July 13	24	10,000	....	130	300	983	2,500	3
Averages	.....	105.4	43,950	99.4	.....	.....	.....	.....	139

21,975,000 gallons per acre per run.

Rate, 10 Million Gallons per Acre per Day.

10.30 a.m., July 14	10.30 a.m., July 18	96	80,000	92.1	3,426.6	8,000	260.7	1,000	9
10.00 a.m., July 19	10.00 a.m., July 24	120	100,000	99.3	660	13,500	44.4	82	9
10.00 a.m., July 25	10.00 a.m., July 28	68	56,700	99.3	20,240	46,600	185.1	370	10
10.00 a.m., July 29	10.00 a.m., July 31	48	40,000	98.5	2,750	3,300	41	50	2
10.20 a.m., Aug. 2	10.00 a.m., Aug. 7	120	100,000	99.5	48,400	200,000	226.9	1,100	10
10.10 a.m., Aug. 10	10.00 a.m., Aug. 11	no he	ad loss	98.6	16,875	30,000	230.7	260	4
Averages	.....	90.4	75,300	97.7	.....	.....	.....	.....	42

Or 37,650,000 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

Sand Filters.—Appendix C.

Run Averages.

Tank A.—Five Million Gallons per Acre per Day.

Time started	Time stopped	Length of run in hours	Gallons discharged per run	Average Bact. Effcy. per run	37°C Count				Weight
					Raw		Filtered		
					Ave'ge	Max.	Ave.	Max.	
1911									
12.45 a.m., Mar. 25	5.00 p.m., Apr. 5	268.25	107,000	92.5	2760	5,600	206	880	13
4.00 p.m., Apr. 6	1.00 p.m., Apr. 15	213	88,800	99.6	3640	6,300	17	90	15
9.30 a.m., Apr. 20	10.00 a.m., Apr. 24	96.5	40,200	99.7	2710	8,200	9.5	14	8
10.00 a.m., Apr. 26	1.00 p.m., Apr. 29	75	31,200	98.9	607	4,000	6.8	10	10
11.45 a.m., May 4	2.00 p.m., May 11	170.25	70,900	99.9	2390	14,000	3.6	13	16
9.30 a.m., May 13	9.30 a.m., May 15	48	20,000	99.9	6150	7,100	6	7	2
9.00 a.m., May 17	5.00 p.m., May 19	56	23,300	99.9	3871	7,300	6.1	15	7
1.05 p.m., May 23	12.00 a.m., May 27	59	24,600	99.7	9410	36,000	25.2	77	17
12.00 a.m., May 29	10.00 a.m., June 5	166	69,200	99.7	6620	10,700	12.4	34	11
10.30 a.m., June 11	12.00 a.m., June 17	148.5	61,900	98.9	936	4,600	9.4	25	18
10.30 a.m., June 26	10.00 a.m., June 30	75.5	31,500	99.7	6991	18,500	18.5	43	10
10.00 a.m., July 4	10.00 a.m., July 6	48	20,000	97.4	1070	3,500	28.2	72	5
1.00 p.m., July 6	5.00 p.m., July 7	28	11,700	97.4	582	1,200	15.2	24	5
10.00 a.m., July 12	10.00 a.m., July 13	24	10,000	....	12	24	113	300	3
	Averages	105.4	43,950	99.4	.....	.....	.....	.....	124

or 21,975,000 gallons per acre per run.

Rate 10 Million Gallons per Acre per Day.

10.30 a.m., July 14	10.30 a.m., July 18	96	80,000	93.8	1380.7	4,000	86.1	390	20
10.00 a.m., July 19	10.00 a.m., July 24	120	100,000	99.3	2345	7,100	16.6	34	9
10.00 a.m., July 25	10.00 p.m., July 28	68	56,700	99.3	9530	30,000	67.6	200	14
10.00 a.m., July 29	10.00 a.m., July 31	48	40,000	97.3	550	800	15.	19	2
10.20 a.m., Aug. 2	10.00 a.m., Aug. 7	120	100,000	96.6	3637.7	15,000	124.7	550	21
11.10 a.m., Aug. 10	10.00 a.m., Aug. 11	.....	.....	99.1	6325	10,000	65.2	115	15
	Averages	90.4	75,300	97.2	.....	.....	.....	.....	81

or 37,650,000 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

SAND FILTERS.—APPENDIX C.

RUN AVERAGES.

Tank B.—Fifteen Million Gallons per Acre per Day.

Time started.	Time stopped.	Length of run in hours.	Gallons discharged per run.	Average bact. effcy. per run.	18°–22°C Count		
					Raw water count.	Filtered water count.	Weight.
1909							
10.20 a.m., Sep. 15	4.15 p.m., Sep. 17	54.0	67,500	75.0	173.3	43.3	9
11.40 a.m., Sep. 18	4.00 p.m., Sep. 20	52.25	65,250	94.6	205.0	15.0	2
11.45 a.m., Sep. 21	9.30 a.m., Sep. 23	43.75	54,700	96.2	344.6	13.3	6
12.45 p.m., Sep. 23	8.30 a.m., Sep. 27	111.5	139,400	99.8	3240.0	5.2	6
12.30 p.m., Sep. 27	4.30 p.m., Sep. 29	52.0	65,000	99.1	788.3	6.5	6
2.50 p.m., Sep. 30	9.30 a.m., Oct. 4	66.75	83,400	97.4	219.5	6.1	10
3.00 p.m., Oct. 4	12.45 p.m., Oct. 8	93.75	117,100	97.9	292.6	6.1	12
5.00 p.m., Oct. 8	9.30 a.m., Oct. 14	136.5	170,600	99.4	198.9	1.6	12
12.15 a.m., Oct. 15	10.45 a.m., Oct. 19	95.0	118,900	97.9	170.1	3.5	6
9,30 a.m., Oct. 20	1.00 p.m., Oct. 21	27.5	34,390	96.9	1666.0	53.6	5
4.30 p.m., Oct. 21	9.00 a.m., Oct. 22	.....	.....	.....	.....	.....	.....
3.30 p.m., Oct. 26	12.00 a.m., Oct. 30	92.5	115,600	48.6	71.2	36.6	9
11.30 a.m., Nov. 1	10.00 a.m., Nov 6	92.5	115,600	83.1	56.0	9.5	7
1.00 p.m., Nov. 6	9.30 a.m., Nov. 10	92.5	115,600	89.0	76.0	8.4	5
12.00 a.m., Nov. 11	1.00 p.m., Nov. 13	49.0	61,300	92.3	75.0	5.8	4
2.00 p.m., Nov. 16	10.00 a.m., Nov. 18	44.0	55,000	97.5	395.0	10.0	1
9.30 a.m., Nov. 19	9.00 a.m., Nov. 23	94.5	118,100	97.6	2281.0	55.3	3
10.00 a.m., Nov. 27	4.00 p.m., Nov. 29	54.0	67,500	91.4	463.0	39.6	3
1.30 p.m., Nov. 30	9.30 a.m., Dec. 3	68.0	85,000	85.0	125.0	18.7	4
Average length of run		72.2	.....	.....	.....	.....	110
" Discharge		.....	91,657	.....	.....	.....	.....
" Bact. Effcy		.....	.....	89.9	.....	.....	.....
" Raw water count		.....	.....	.....	1157.7	.....	.....
" Filtered water count		.....	.....	.....	.....	18.7	.....

45,828,500 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

Sand Filters.—Appendix C.

Run Averages.

Tank B.—Ten Million Gallons per Acre per Day.

Time started	Time stopped	Length of run in hours	Gallons discharged per run	Average bact. effcy. per run	18°–22 C Count				No samples taken
					Raw		Filtered		
					Av'ge	Max.	Av'ge	Max.	
1910									
5.00 p.m., Feb. 16	9.30 a.m., Feb. 18	30.5	25,400	86.7	392.0	670	52.0	106	3
5.00 p.m., Feb. 18	10.00 a.m., Feb. 21	41.0	34,200	61.5	65.0	112	25.0	40	3
5.00 p.m., Feb. 21	10.30 a.m., Feb. 25	89.5	74,600	92.1	525.8	4110	42.3	170	10
4.30 p.m., Feb. 25	12.00 a.m., Mar. 5	187.5	156,200	77.0	1304.0	5200	299.0	806	18
5.00 p.m., Mar. 5	10.30 a.m., Mar. 18	305.5	254,600	82.8	1305.0	6880	224.0	598	27
9.00 a.m., Mar. 19	9.00 a.m., Mar. 29	240.0	200,000	89.0	315.0	960	33.7	104	10
10.30 a.m., Apr. 4	5.00 p.m., Apr. 6	54.5	45,800	66.8	82.5	180	27.4	120.0	8
2.45 p.m., May 6	4.30 p.m., May 12	145.75	121,500	89.4	91.2	230	9.7	57.0	15
3.00 p.m., May 13	4.30 p.m., May 17	97.5	81,200	89.2	70.5	106	7.6	18	5
11.00 a.m., May 21	10.00 a.m., May 25	95.0	79,200	94.4	79.5	147	4.5	5	2
4.00 p.m., May 27	11.00 a.m., June 2	139.0	115,800	88.8	58.9	100	6.6	28	13
2.00 p.m., June 3	10.30 p.m., June 8	116.5	97,100	98.7	233.9	1440	3.2	6	10
10.00 a.m., June 10	11.00 a.m., June 17	169.0	140,800	90.2	100.0	500	9.8	53	15
3.00 p.m., June 17	10.00 a.m., June 21	91.0	75,800	89.8	108.0	315	11.0	18	7
4.00 p.m., June 22	9.30 a.m., July 6	329.5	278,700	91.5	139.2	430	13.7	30	11
4.00 p.m., July 6	9.30 a.m., July 11	113.5	94,600	87.9	91.3	325.0	11.7	21	9
12.00 a.m., July 11	9.30 a.m., July 18	165.5	137,500	86.5	93.4	280	12.6	46	16
4.00 p.m., July 18	12.00 a.m., July 23	116.0	96,700	94.6	98.0	170	5.3	14.0	14
4.00 p.m., July 26	12.00 a.m., Aug. 3	164.0	136,700	90.5	93.4	350	8.8	50	12
2.00 p.m., Aug. 3	12.00 a.m., Aug. 13	238.0	198,500	97.1	57.1	181	1.6	7.0	19
11.30 a.m., Aug. 16	10.00 a.m., Aug. 18	46.5	38,700	98.5	93-5	137	1.5	3.0	4
Averages	.....	141.6	118,000	84.5	.....	.....	.....	.....	241

59,000,000 per acre per run.

Rate, Five Million Gallons per Acre per Day.

3.00 p.m., Aug. 29	4.00 p.m., Sep. 6	193.0	80,400	86.1	270.5	1440	37.6	130	15.0
9.45 a.m., Sep. 8	5.00 p.m., Sep. 21	307.25	128,000	92.4	301.2	2000	23.0	150.0	24.0
12.00 a.m., Sep. 23	10.00 a.m., Oct. 3	248.00	103,300	94.3	375.0	710	21.3	91.0	8.0
5.00 p.m., Oct. 3	10.00 a.m., Oct. 22	449.00	187,000	98.1	265.0	1200	5.1	16.0	17.0
Averages	.....	299.56	125,000	92.7	.....	.....	.....	.....	64

62,500,000 gallons per acre per run.

Rate, Ten Million Gallons per Acre per Day.

4.00 p.m., Oct. 24	5.00 p.m., Nov. 1	193.00	160,800	68.5	117.4	240	37.0	80	8
11.30 a.m., Nov. 8	4.00 p.m., Nov. 10	52.5	43,700	....	63.0	186	1666.6	2000	3
.....	.....	122.7	102,250	....	Infected filter				

51,125,000 gallons per acre per run.

Rate, Three Million Gallons per Acre per Day.

12.00 a.m., Nov. 12	10.00 a.m., Dec. 2	478.0	119,500	....	3.7	12.0	413.7	2000	16
12.30 a.m., Dec. 3	5.00 p.m., Dec. 15	.....	.....	36.7	60.0	458	37.6	181	15.0
.....	.....	.....	.....	....	Infected filter				

75,225,000 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

Sand Filters.—Appendix C.

Run Averages.

Tank B.—Five Million Gallons per Acre per Day.

Time started	Time stopped	Length of run in hours.	Gallons discharged per run	Average bact. effcy. per run.	18°–22° C Count				Weight
					Raw		Filtered		
					Ave.	Max.	Ave.	Max.	
1911									
4.00 p.m., Mar. 29	5.00 p.m., April 5	169	70,400	....	10,707	30,000	19,918	46,500	7
4.00 p.m., Apr. 6	1.00 p.m., April 15	213	88,700	91.1	14,250	29,000	1,265	3,000	14
4.00 p.m., Apr. 19	10.00 a.m., April 22	66	27,500	98.6	12,614	30,000	179	370	7
10.00 a.m., Apr. 26	5.00 p.m., April 28	55	22,900	38.3	527	3,000	325	1,310	9
11.45 a.m., May 4	10.00 a.m., May 8	94.25	39,300	62.8	700	1,260	261	960	6
9.30 a.m., May 13	9.30 a.m., May 15	47.5	19,800	99.6	26,700	39,000	130	187	2
9.00 a.m., May 17	5.00 p.m., May 18	32	13,300	99.1	24,600	30,000	210	300	5
1.00 p.m., May 23	10.00 a.m., May 26	38	15,800	99.2	99,040	280,000	824	1,900	5
2.00 p.m., May 30	5.00 p.m., May 31	27	11,300	97.3	66,700	120,000	1843	2,600	3
2.30 p.m., June 5	10.30 a.m., June 8	68	28,300	99.3	36,471	136,000	309.6	500	12
10.00 a.m., June 10	5.00 p.m., June 14	81.5	34,000	97.4	2,568	13,500	66.3	240	11
11.00 a.m., June 16	12.00 a.m., June 17	25	10,400	99.4	8,250	13,500	47	67	2
11.00 a.m., June 19	10.30 a.m., June 21	47.5	19,800	97.8	13,616	25,000	293	800	6
10.30 a.m., June 26	11.00 a.m., June 28	49	20,400	98.1	16,400	27,000	325	610	6
12.00 a.m., July 3	2.00 p.m., July 6	74	30,800	96.9	23,044	120,000	711	2,900	10
Averages	.....	72.5	30,450	89.5	25,350	.....	485.5	.....	98

or 15,125,000 gallons per acre per run.

Rate, 10 Million Gallons per Acre per Day.

10.00 a.m., July 12	12.00 a.m., July 14	50	41,700	53.3	3,298	10,000	1540	3,000	8
10.00 a.m., July 15	5.00 a.m., July 17	55	45,900	86.8	2,880	7,000	380	900	5
10.00 a.m., July 19	10.00 a.m., July 21	48	40,000	95.5	7,580	10,500	340	550	5
10.00 a.m., July 24	10.00 a.m., July 26	44.5	37,100	97.7	14,020	24,000	325.8	650	6
10.00 a.m., July 27	5.30 p.m., July 29	55	45,900	97.8	17,100	46,600	378.5	1,200	8
10.00 a.m., Aug. 1	10.00 a.m., Aug. 3	48	40,000	95.0	15,500	24,000	786	3,200	6
Averages	.....	.....	.....	86.3	10,063	.....	625.0	.....	38

or 20,875,000 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

Sand Filters.—Appendix C.

Run Averages.

Tank B.—Five Million Gallons per Acre per Day.

Time started	Time stopped	Length of run in hours	Gallons discharged per run	Average bact. effcy. per run	37°C Count				Weight
					Raw		Filtered		
					Av'ge	Max.	Av'ge	Max.	
1911									
4.00 p.m., Mar. 29	5.00 p.m., Apr. 5	169	70,400	87.3	3267	5,600	417	1410	7
4.00 p.m., Apr. 6	1.00 p.m., Apr. 15	213	88,700	98.9	3572	6,300	40	90	15
4.00 p.m., Apr. 19	10.00 a.m., Apr. 22	66	27,500	99.5	3581	9,000	18.7	38	7
10.00 a.m., Apr. 26	5.00 p.m., Apr. 28	55	22,900	80.4	66.3	400	13	34	9
11.45 a.m., May 4	10.00 a.m., May 8	94.25	39,300	76.6	47	90	11	22	6
9.30 a.m., May 13	9.00 a.m., May 15	47.5	19,800	99.4	6150	7,100	40.5	56	2
9.00 a.m., May 17	5.00 a.m., May 18	32	13,300	98.5	3000	4,000	46	74	5
1.00 p.m., May 23	10.00 a.m., May 26	38	15,800	99.5	15420	36,000	72.7	180	5
2.00 p.m., May 30	5.00 p.m., May 31	27	11,300	93.6	6550	10,700	413.3	480	3
2.30 p.m., June 5	10.30 a.m., June 8	68	28,300	98.7	6291	21,000	82.6	210	12
10.00 a.m., June 10	5.00 p.m., June 14	81.5	34,000	93.2	304.8	1,600	20 7	90	11
11.00 a.m., June 16	12.00 a.m., June 17	25	10,400	99.1	1250	2,200	12	12	1
11.00 a.m., June 19	10.30 a.m., June 21	47.5	19,800	97.5	4541	12,000	112	240	6
10.30 a.m., June 26	11.00 a.m., June 28	49	20,400	98.1	5333	8,500	104.6	315	6
12.00 a.m., July 3	2.00 p.m., July 6	74	30,800	94.6	1540	6,000	83.3	245	10
Averages	.....	72.5	30,450	94.5	3340	.....	82.7	.....	98

Or 15,125,000 gallons per acre per run.

Rate, 10 Million Gallons per Acre per Day.

10.00 a.m., July 12	12.00 a.m., July 14	50	41,700	91.9	1595	4,800	130	300	8
10.00 a.m., July 15	5.00 a.m., July 17	55	45,900	86.0	904.6	4,000	127	300	5
10.00 a.m., July 19	10.00 a.m., July 21	48	40,000	95.6	2328	3,000	102.2	173	5
10.00 a.m., July 24	10.00 a.m., July 26	44.5	37,100	97.6	5140	9,300	127	240	6
10.00 a.m., July 27	5.30 a.m., July 29	55	45,900	98.0	9287	30,000	189.6	900	21
10.00 a.m., Aug. 1	10.00 a.m., Aug 3	48	40:000	95.2	3106	4,700	120	320	6
Averages	.....	50.1	41,750	95.3	3726	.....	132.6	.....	51

Or 20,875,000 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

SAND FILTERS.—APPENDIX C.

RUN AVERAGES.

TANK "C"—10 MILLION GALLONS PER ACRE PER DAY.

Time started.	Time stopped.	Length of run in hours.	Gallons discharged per run.	Average Bact. eff'cy. per run.	Remarks.		
					Raw water count.	Filtered water count.	Weight.
1909							
10.20 a.m., Sep. 15	11.00 a.m., Sep. 20	108.75	90,500	81.2	209.0	39.2	10
4.00 p.m., Sep. 20	2.10 p.m., Sep. 22	46.5	38,750	88.9	224.6	24.8	6
5.30 p.m., Sep. 22	8.30 a.m., Sep. 27	87.0	72,400	99.8	2979.8	8.4	8
12.30 a.m., Sep. 27	5.00 p.m., Sep. 30	76.5	63,750	99.4	717.1	3.7	9
11.05 a.m., Oct. 1	9.45 a.m., Oct. 6	118.25	98,500	92.4	182.6	14.0	13
3.30 p.m., Oct. 6	9.30 a.m., Oct. 14	206.5	172,000	97.9	290.8	5.1	19
12.15 p.m., Oct. 15	3.30 p.m., Oct. 20	124.25	103,200	74.0	318.1	82.5	10
11.15 a.m., Oct. 21	9.00 a.m., Oct. 22	21.75	18,100	96.5	1180.0	41.5	2
3.30 p.m., Oct. 26	5.00 p.m., Nov. 1	121.0	100,800	92.4	71.7	5.4	12
9.30 a.m., Nov. 5	4.00 p.m., Nov. 10	120.0	99,900	93.7	69.5	4.4	10
2.00 a.m., Nov. 11	12.00 a.m., Nov. 15	96.0	80,000	80.6	67.2	13.1	7
2.00 p.m., Nov. 16	3.00 p.m., Nov. 22	145.0	120,800	97.2	280.0	8.0	6
10.00 a.m., Nov. 27	9.30 a.m., Dec. 1	95.5	79,600	93.2	362.0	24.6	5
9.30 a.m., Dec. 3	9.30 a.m., Dec. 7	60.0	49,998	76.8	267.5	62.0	2
Average length of run.....		101.9	.....	.....	.....	.....	119
" discharge.....		.....	84,878	.....	.....	.....	.....
" bact. eff'cy.....		.....	.....	91.2	.....	.....	.....
" raw water count.....		.....	.....	.....	508.5	.....	.....
" Filtered water count....		.....	.....	.....	.....	23.9	.....

42,439,000 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

Sand Filters.—Appendix C.

Run Averages.

Tank "C"—15 Million Gallons per Acre per Day.

Time started.	Time stopped.	Length of run in hours.	Gallons discharged per run.	Average Bact. Eff'cy. per run.	18° 22° Count. Remarks.				
					Raw.		Filtered.		Weight.
					Aver.	Max.	Aver.	Max.	
1910									
9.30 a.m., Mar. 11	9.00 a.m., Mar. 16	120	150000	61.3	636	1430	246.0	665.0	11
5.00 p.m., Mar. 16	4.00 p.m., Mar. 21	119	148700	84.3	836	3200	131.0	312.0	9
11.00 a.m., April 6	11.00 a.m., April 9	72	90000	64.3	60	240.0	21.4	46.0	9
Averages	.....	103.6	129600	69.4	.....	.....	.....	.....	29

or 64,800,000 gallons per acre per run.

Rate—5 Million Gallons per Acre per Day.

3.45 p.m., May 10	9.30 a.m., May 18	185.75	77400	89.0	89.5	172	9.7	20.0	12
11.00 a.m., May 21	9.30 a.m., May 23	46.5	19400	92.0	147.0	147.0	12.0	12.0	1
10.00 a.m., May 30	11.00 a.m., June 2	73.0	30900	85.5	59.7	100.0	8.6	14.0	8
11.00 a.m., June 4	9.30 a.m., June 6	46.5	19400	99.7	890.0	144.0	2.5	3.0	2
Averages.....	.....	87.9	36.600	88.8	.....	.....	.....	.....	23

or 18,300,000 gallons per acre per run.

Rate—15 Million Gallons per Acre per Day

3.15 p.m., May 6	4.00 p.m., May 9	72.75	90900	82.75	88.5	230	15.5	50.0	6
10.00 a.m., May 26	10.30 a.m., May 28	42.5	53100	86.0	59.5	130.0	8.3	13.0	6
4.00 p.m., June 7	9.30 a.m., June 11	89.5	111800	94.5	129.0	340.0	7.0	20.0	10
4.30 p.m., June 13	12.00 a.m., June 16	67.5	84400	89.7	58.7	110.0	6.0	10.0	8
3.00 p.m., June 17	10.00 am.. June 20	67.0	83800	93.7	72.0	130.0	4.5	7.0	5
9.30 a.m., June 22	10.00 a.m., June 26	84.5	105600	——	44.3	110.0	75.4	160.0	strips
2.00 p.m., June 27	4.00 p.m., June 29	....	.....	.....	26.5	52.0	13.5	43.0	..
10.00 a.m., July 3	4.00 p.m., July 5	54.5	68100	82.6	223.6	430.0	38.8	82.0	6
4.00 p.m., July 6	10.00 a.m., July 9	66.0	82500	92.7	98.0	325.0	7.1	20.0	9
12.00 a.m., July 12	9.30 a.m., July 18	141.5	176900	94.7	92.8	280.0	4.4	10.0	11
4.00 p.m., July 18	10.00 a.m., July 22	90.0	112500	96.5	103.6	170.0	3.7	10.0	10
4.30 .pm., July 22	12.00 a.m., July 23	19.5	24400	95.1	70.0	70.0	3.5	5.0	2
10.00 a.m., July 26	10.00 a.m., July 28	48.0	60000	90.2	143.7	500.0	14.0	54.0	8
4.00 p.m.. July 29	12.00 a.m., July 30	20.0	25000	98.0	350.0	350.0	7.0	7.0	1
2.00 p.m., Aug. 3	10.00 a.m., Aug. 8	116.0	145000	98.2	66.0	181.0	1.1	4.0	7
3.30 p.m., Aug. 9	10.00 a.m., Aug. 13	90.5	113100	96.0	53.3	121.0	2.1	4.0	9
11.30 a.m., Aug. 16	12.00 a.m., Aug. 17	24.5	30600	76.5	34.0	51.0	8.0	9.0	2
Averages	.....	70.0	87.500	92.98	.....	.....	.....	.....	100

or 43,750,000 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

SAND FILTERS.—APPENDIX C.

RUN AVERAGES.

TANK C.—FIVE MILLION GALLONS PER ACRE PER DAY.

Time started.	Time stopped	Length of run in hours	Gallons discharged per run	Average bact. eff'cy. per run	Remarks: Raw Av'ge	Raw Max.	Filtered Av'ge	Filtered Max.	Weight.
1910									
10.00 a.m., Aug. 30	4.00 p m., Sep. 7	198.0	82.500	92.4	252.0	1440	19.2	114.0	19
4.00 p.m., Sep. 8	12.00 a.m., Sep. 24	380.0	158.300	96.3	298.0	2000	11.1	170.0	27
4.00 p.m., Sep. 26	12.00 a.m., Oct. 11	356.0	148.300	97.9	225.3	536.0	5.0	14.0	13
Averages	.....	311.3	129.600	95.4	....,..	.....	.....	.....	59

or 64,800,000 Gallons per Acre per run.

RATE—TEN MILLION GALLONS PER ACRE PER DAY.

12.00 a.m., Oct, 13	3.30 p.m., Oct. 21	197.5	164.500	74.7	433.0	1200.	109.6	225.	8
4.00 p.m., Oct. 24	10.30 a.m., Nov. 5	282.5	235.400	27.5	110.5	240.0	80.1	360.	8
11.30 p.m., Nov. 8	10.00 a.m., Nov.14	141.0	117.500	....	.....	.....	.....	.....	....
		Not stopped, rate changed to 3 million—see 3 million							
Averages	.....	206.8	172.259	51.1	.....	.....	.....	.....	16

or 86,125,000 Gallons per Acre per run.

RATE—THREE MILLION GALLONS PER ACRE PER DAY.

10.00 a.m., Nov. 14	12.30 a.m., Dec. 3	461.0	115.200	—	13.7	186.0	237.7	1500.	20
5.00 p.m., Dec. 5	5.00 p.m., Dec. 10	672.	168.000	92.8	66.3	450.0	4.8	12.	13
Averages	.....,.....	566.	141.500	92.8	....,..	.....	.....	.....	13

or 70,000,000 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

Sand Filters.—Appendix C.

Run Averages.

Tank C.—Five Million Gallons per Acre per Day.

Time started	Time stopped	Length of run in hours	Gallons discharged per run	Average bact. eff'cy. per run	18°-22°C. Remarks. Raw Av'ge.	Raw Max.	Filtered Av'ge	Filtered Max.	Weght
1911									
12.45 a.m., Mar. 25	5.00 p.m., Apr. 7	316.25	131700	70.3	9950	30000	2960	13600	15
1.00 p.m., Apr. 8	1.00 p.m. Apr. 15	168	70000	92.4	18730	29000	1430	3300	11
3.00 p.m., Apr. 18	10.00 p.m., Apr. 24	139	57900	97.3	14410	32700	401	2700	11
10.00 a.m., Apr. 26	10.00 a.m., May 1	120	50000	97.7	4560	7600	105.	290	11
11.50 a.m., May 3	10.00 a.m., May 8	118.5	49400	90.9	1580	4000	145	340	15
9.00 a.m., May 12	9.00 a.m., May 15	72	30000	91.6	41420	110000	3460	6000	5
9.00 a.m., May 17	10.00 a.m., May 19	49	20400	99.1	25250	30000	236	500	6
1.00 p.m., May 23	10.00 a.m., May 26	30	12500	99.8	99039	280000	208	550	5
2.00 p.m., May 30	1.30 a.m., June 1	47.5	19800	99.5	60850	120000	300	400	4
2.30 p.m., June 5	5.00 a.m., June 7	50.5	21000	99.3	35471	136000	239	470	12
10.00 p.m., June 10	12.00 a.m., June 17	159.5	66500	98.5	5970	15000	94.9	190	18
10.30 a.m., June 26	2.00 p.m., June 28	.....	.....	98.4	20416	34000	219.0	420	11
10.30 a.m., June 29	10.00 a.m., June 30	75.5	31200	99.6	266666	300000	980	1430	3
10.00 a.m., July 4	5.00 p.m., July 5	31	12900	95.2	3800	7600	182	520	5
1.00 p.m., July 6	2.00 p.m., July 7	25	10400	94.7	1918	2700	102	200	5
10.00 a.m., July 12	1.00 p.m., July 13	27	11200	80.4	478	1200	93.5	234	4
Averages	.....	95.2	39650	96.1	.....	.....	.....	.....	126

Rate—Ten Million Gallons per Acre per Day.

10.30 a.m., July 14	10.00 a.m., July 15	24	20000	97.4	4225.	8000	109.7	176	4
10.20 a.m., July 18	5.00 p.m., July 18	7	5800	9.2	114	282	102.7	300	4
Averages.....	.....	15.5	129000	97.4	.....	.....	.....	.....	4

Rate—Five Million Gallons per Acre per Day.

10.00 a.m., July 19	10.00 a.m., July 24	120	50000	99.3	6600	13500	48.7	103	9
10.00 a.m., July 25	10.00 a.m., July 31	144	60000	99.3	12729	46000	102.4	240	15
10.00 a.m., Aug. 1	4.00 p.m., Aug. 9	198	82800	99.9	42666	200000	61.1	144	12
11.10 a.m., Aug. 10	10.00 a.m., Aug. 11	no hea	d lost	99.3	19875	30000	136.2	280	4
Averages.....	.....	154	64.200	99.5	.....	.....	.....	.....	40

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

Sand Filters.—Appendix C.

Run Averages.

Tank C.—Five Million Gallons per Acre per Day.

Time Started	Time Stopped	Length of run in hours	Gallons discharged per run	Average bact. effcy. per run	37° C Remarks				Weight
					Raw		Filtered		
					Av'ge.	Max.	Av'ge	Max.	
1911									
12.45 a.m., Mar. 25	5.00 p.m., Apr. 7	316.25	131700	....	2875	7000	695	4200	..
1.00 p.m., Apr. 8	1.00 p.m., Apr. 15	168	70000	98.3	4000	6200	68	242	11
3.00 p.m., Apr. 18	10.00 p.m., Apr. 24	139	57900	99.6	4252	9000	18.5	25	11
10.00 a.m., Apr .26	10.00 a.m., May 1	120	50000	98.7	1192	4000	15.3	30	11
11.50 a.m., May 3	10.00 a.m., May 8	118.5	49400	96.7	598	1420	20	38	15
9.00 a.m., May 12	9.00 a.m., May 15	72	30000	98.7	9040	2200	119	300	5
9.00 a.m., May 17	10.00 a.m., May 19	49	20400	98.6	3300	4800	47	100	6
1.00 p.m., May 23	10.00 a.m., May 26	30	12500	99.8	15213	3600	27.4	40	4
2.00 p.m., May 30	1.30 a.m., June 1	47.5	19800	99.4	8100	10700	50.6	87	4
2.30 p.m., June 5	5.00 a.m., June 7	50.5	21000	98.8	6291	2100	72.4	160	12
10.00 p.m., June 10	12.00 a.m., June 17	159.5	66500	97.5	935	4600	22.5	65	18
10.30 a.m., June 26	2.00 p.m., June 28	.....	.....	99.9	10208	2400	74.5	180	11
10.30 a.m., June 29	10.00 a.m., June 30	75.5	31200	99.4	6033	7000	41.6	50	3
10.00 a.m., July 4	5.00 p.m., July 5	31	12900	98.5	1070	3500	16.4	36	5
1.00 p.m., July 6	2.00 p.m., July 7	25	10400	95.9	582	1200	24	42	5
10.00 a.m., July 12	1.00 p.m., July 13	27	11200	94.2	292	1400	16.8	30	5
Averages	.....	95.2	39.650	98.3	4740	.....	42.2	.....	126

or 19,825,000 gallons per acre per run.

Rate—Ten Million Gallons per Acre per Day.

10.30 a.m., July 14	10.00 a.m., July 15	24	20000	97.5	2000	3500	49.5	84	4
10.20 a.m., July 18	5.00 p.m., July 18	7	5800	—	2.6	4	16.1	102	4
Averages	.....	15.5	12900	97.5	2000	.....	49.5	.....	4

Rate—Five Million Gallons per Acre per Day.

10.00 a.m., July 19	10.00 a.m., July 24	120	50000	99.5	2345	7100	12.2	23	9
10.00 a.m., July 25	10.00 a.m., July 31	144	60000	99.2	6735	30000	52.6	194	15
10.00 a.m., Aug. 1	4.00 p.m., Aug. 9	198	82800	99.6	4322	15000	17.6	26	12
11.10 a.m., Aug. 10	10.00 a.m., Aug. 11	No head loss		99.8	6325	10000	16.8	33	4
Averages	.....	154	64.200	99.5	4932	.....	24.8	.....	40

or 32,100,000 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

Sand Filters.—Appendix C.

Run Averages.

Tank D.—Five Million Gallons per Acre per Day.

Time started	Time stopped	Length of run in hours	Gallons discharged per run	Average bact. eff'cy. per run	Remarks		
					Raw water count	Filtered water count	Weight
1909							
10.20 a.m., Sep. 15	12.40 a.m., Sep. 23	194.5	80750	72.6	244.4	66.7	20
5.00 p.m., Sep. 23	3.30 p.m., Oct. 1	179.5	74600	99.7	1781.0	3.4	21
10.45 a.m., Oct. 2	11.30 a.m., Oct. 13	252.75	105000	98.0	278.3	5.3	24
11.30 a.m., Oct. 14	9.00 a.m., Oct. 22	177.0	73600	96.4	788.3	28.1	20
4.45 p.m., Oct. 26	5.00 p.m. Nov. 5	204.25	85000	97.1	60.4	1.7	15
1.00 p.m., Nov. 6	9.30 a.m. Nov. 12	140.5	58400	99.6	69.5	0.3	12
10.00 a.m., Nov. 13	3.30 p.m. Nov., 22	221.5	92000	87.2	934.9	120.2	9
1.00 p.m., Nov. 29	9.30 a.m. Dec., 4	116.5	48533	91.4	208.1	17.9	8
4.30 p.m., Dec. 6	9.30 a.m. Dec., 7	17.0	7082	——	——	——	129
Average length of run		167.0					
" discharge			69451				
" bact. eff'cy				95.3	670.4	30.4	
" raw water count					670.4		
" filtered water count						30.4	

34,725 500 gallons per acre per run

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

SAND FILTERS.—APPENDIX C.

RUN AVERAGES.

TANK "D"—12 MILLION GALLONS PER ACRE PER DAY.

Time started.	Time stopped.	Length of run in hours.	Gallons discharged per run.	Average Bact. eff'cy. per run.	18° to 22° Count. Remarks.				No. samples taken.
					Raw.		Filtered.		
					Aver.	Max	Av.	Max.	
1910									
4.00 p.m., May 5	9.00 a.m., May 9	89.25	89250	77.5	109.0	222.0	24.5	69.0	6
3.45 p.m., May 10	12.00 a.m., May 14	92.25	92250	84.4	88.3	172.0	13.75	40.0	12
11.00 a.m., May 21	9.30 a.m., May 23	46.50	46500	77.5	147.0	147.0	33.0	33.0	1
10.00 a.m., May 26	10.00 a.m., May 30	96.00	96000	93.8	58.9	130.	3.88	8.	8
11.30 a.m., June 1	11.00 a.m., June 2	23.50	23500	90.3	67.6	100.	6.6	13.	3
12.00 a.m., June 3	9.30 a.m., June 6	69.5	69500	99.6	502.0	1440.	2.3	4.0	3
4.00 p.m., June 6	4.00 p.m., June 8	48.0	48000	94.2	155.0	340.	8.7	15.0	7
10.00 a.m., June 13	10.00 a.m., June 15	48.0	48000	82.3	69.3	110.	12.3	27.	6
5.00 p.m., June 15	11.00 a.m., June 17	42.0	42000	76.3	62.0	84.0	14.7	40.	6
3.00 p.m., June 17	10.00 a.m., June 20	67.0	67000	69.5	72.0	130.	22.0	45.	4
4.00 p.m., June 21	10.00 a.m., June 27	138.0	138000	——	49.9	110.0	52.0	160.0	12
2.00 p.m., June 27	4.00 p.m., June 29	50.0	50000	76.2	26.5	52.0	6.3	18.0	6
10.00 a.m., July 3	4.30 p.m., July 5	54.5	54500	83.0	182.4	430.	31.0	54.0	6
4.10 p.m., July 6	4.00 p.m., July 8	51.0	51000	91.2	98.0	325.0	8.7	48.0	9
12.00 a.m., July 12	9.30 a.m., July 18	139.5	139500	95.9	92.8	280.0	3.8	20.0	11
4.00 p.m., July 18	10.00 a.m. July 22	90.0	90000	93.0	103.8	170.0	7.5	41.0	10
4.30 p.m., July 22	10.00 a.m., July 25	65.5	65000	97.2	70.0	70.0	2.0	3.0	2
12.00 a.m., July 26	10.00 a.m., Aug. 8	308.0	308000	91.8	67.3	500.0	5.5	15.0	21.0
3.30 p.m., Aug. 9	12.00 a.m., Aug. 13	92.5	92500	98.0	53.5	121.0	1.0	3.0	9
11.30 a.m., Aug. 16	10.00 a.m., Aug. 18	46.5	46500	97.0	93.6	137.0	2.66	4.0	3
Averages	.....	84.37	84.370	81.4	.....	.....	.....	.....	133

42,185,000 gallons per acre per run.

RATE 5 MILLION GALLONS PER ACRE PER DAY.

10.00 a.m., Aug. 30	12.30 a.m., Sep. 9	242.5	101000	90.2	215.9	1440	21.3	82.0	25
12.00 a.m., Sep. 12	12.00 a.m., Sep. 26	336.0	138900	97.1	312.0	2000.	9.1	23.	20
2.00 p.m., Sep. 27	12.00 a.m., Oct. 14	406.0	169170	96.4	211.2	590.	7.8	24.	14
Averages	.....	328.16	136,700	94.0	.....	.....	.....	.....	59

68,350,000 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

Sand Filters.—Appendix C.

Run Averages.

Tank D—Ten Million Gallons per Acre per Day.

Time started	Time stopped	Length of run in hours	Gallons discharged per run	Average bact. eff'cy. per run	Remarks: Raw Av'ge.	Remarks: Raw Max.	Remarks: Filtered Max.	Remarks: Filtered Av'ge	No. samples taken
1910									
8.00 a.m., Oct. 15	4.00 p.m., Oct. 21	152.0	126690	62.0	546.5	1200	210.8	1000.0	6
4.00 p.m., Oct. 24	12.00 a.m., Nov. 4	260.0	216700	92.2	104.7	240.3	8.2	30.0	9
11.30 a.m., Nov. 8	5.00 p.m., Nov. 9	29.5	24580	52.4	63.0	186.0	30.0	77.0	3
Averages	.....	147.16	122500	87.3	.....	.....	.....	.....	18

61,250,000 gallons per acre per run.

Rate—Three Million Gallons per Acre per Day.

5.00 p.m., Nov. 11	10.00 a.m., Nov. 29	425	106300	....	3.7	12.0	3.64	23.	..
5.00 p.m., Dec. 2	5.00 p.m., Dec. 16	336	84000	96.0	27.1	100.0	1.09	4.	11
5.00 p.m., Dec. 17	5.00 p.m., Jan. 3	No head loss		85.2	12.1	458.1	1.8	6.	5
Averages	.....	380.3	95.100	92.6	.....	.....	.....	.....	16

47,550,000 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

SAND FILTERS.—APPENDIX C.

RUN AVERAGES.

TANK D.—FIVE MILLION GALLONS PER ACRE PER DAY.

Time started	Time stopped	Length of run in hours	Gallons discharged per run	Average bact. eff'cy. per run	18°–22°C Remarks. Raw. Av'ge.	Raw. Max.	Filtered Av'ge.	Filtered Max.	Weight
1911									
5.00 p.m., Mar. 23	10.00 a.m., Apr. 1	185	77000	89.5	177.1	9600	186.9	530	10
11.00 a.m., Apr. 5	5.30 p.m., Apr. 12	174	72400	81.8	9.1	187	16.6	80	9
3.00 p.m., Apr. 18	10.00 a.m., Apr. 24	137	57000	96.0	185.3	480	7.4	22	11
2.00 p.m., Apr. 25	10.00 a.m., Apr. 29	92	38400	82.6	198.0	360	27.7	155	10
3.30 p.m., May 1	10.00 a.m., May 8	160.5	66800	98.5	580.	3200	8.5	44	12
1.00 p.m., May 11	9.00 a.m., May 15	92	38400	72.4	112.1	185	31.1	128	7
9.00 a.m., May 17	10.00 a.m., May 19	49	20400	98.6	334.1	700	4.5	11	6
12.00 a.m., May 22	1.00 p.m., May 26	97	40400	99.7	5368	30000	11.6	32	6
4.00 p.m., May 29	1.00 p.m., June 6	115.5	48200	98.3	283.2	800	5	16	13
10.00 a.m., June 10	10.00 a.m., June 20	170	70800	98.9	279.7	500	15.4	100	19
10.30 a.m., June 26	12.00 a.m., June 28	29	12100	97.2	324.7	325	6.5	7	4
10.00 a.m., July 3	12.00 a.m., July 5	50	20800	88.8	99.6	300	11.2	45	5
1.00 p.m., July 6	11.30 a.m., July 29	550.5	229300	83.7	153.2	660	25	100	43
4.00 p.m., July 29	10.00 a.m., Aug. 11	306	12700	93.6	150.6	800	9.9	38	24
Averages	.....	157.5	65700	90.7	.....	.....	.....	.....	179

32,850,000 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

EXPERIMENTAL STATION.

Sand Filters.—Appendix C.

Run Averages.

Tank D.—Five Million Gallons per Acre per Day.

Time started	Time stopped	Length of run in hours	Gallons discharged per run	Average Bact. eff'cy. per run.	37°C. Remarks				
					Raw		Filtered		Weight
					Av'ge.	Max.	Av'ge.	Max.	
1911									
5.00 p.m., Mar. 23	10.00 a.m., Apr. 1	185	77000	57.9	72.1	166	30.4	170	10
11.00 a.m., Apr. 5	5.30 p.m., Apr. 12	174	72400	90.4	37.5	64	3.66	8	9
3.00 p.m., Apr. 18	10.00 a.m., Apr. 24	137	57000	60.3	15.1	25	6	19	10
2.00 p.m., Apr. 25	10.00 a.m., Apr. 29	92	38400	87.2	23.4	40	3	6	9
2.30 p.m., May 1	10.00 a.m., May 8	160.5	66800	92.0	44.8	340	3.6	7	11
1.00 p.m., May 11	9.00 a.m., May 15	92	38400	55.0	9.1	15	4.1	10	6
9.00 a.m., May 17	10.00 a.m., May 19	49	20400	85.2	11.5	25	1.7	7	6
12.00 a.m., May 22	1.00 p.m., May 26	97	40400	89.3	28.1	140	3	5	6
4.00 p.m., May 29	1.00 p.m., June 6	115.5	48200	75.8	9.5	28	263	7	11
10.00 a.m., June 10	10.00 a.m., June 20	170	70800	74.5	10.2	19	2.6	6	18
10.30 a.m., June 26	12.00 a.m., June 28	29	12100	88.7	15	37	1.7	3	4
10.00 a.m., July 3	12.00 a.m., July 5	50	20800	18.7	3.2	9	2.6	4	5
1.00 p.m., July 6	11.30 a.m., July 29	550.5	229300	77.3	13.5	173	3.07	17	44
4.00 p.m., July 29	10.00 a.m., Aug. 11	306	12700	57.7	2.6	16	1.1	4	25
Averages	.....	157.5	65700	72.6	.....	.....	.....	.....	174

32,850,000 gallons per acre per run.

Raw water, normally Lake Ontario water. Lagoon water, December, 1910, to July, 1911. Chlorination of Toronto water started April, 1910.

APPENDIX D.

TABLE 1. APPEN

SAND

TANK "B"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. A.M.	Hour. P.M	Serial No.	Bacterial Counts. 18°–22°C. Inf.	18°–22°C. Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent. 1 C.C.	Influent. 5 C.C.
1912									
Feb. 21	12.00				36		1	0	
23	10.00			1	43	—	—		
	12.00			5	41	0	1		
24	11.00			3	41	0	6		
		1.00		1	62	2	7		
27	12.00			100	92	61	51		
28	11.00			1	71	5	2		
29	11.00			16	63	4	4	0	0
Mar. 1	11.00			2	80	3	4		
2	11.00			2	97	0	0		
8		3.30		1	50	0	1		
		4.00			45	1	1		
9		4.00		2	10	1	0		
	11.00			3	60	2	0		
11		5.00		6	38	2	2		
13		4.00		10	42	3	10		
14	12.00			—	3	1	2		
15		4.00		4	32	6	0		
		4.30			30		—		
May 30	10.30			44	1,987	4	2		
	10.30				43		—		
		2.30		288	21	1	3		
		2.30			23		1		
31		2.30		992	22	1	—		
June 1	11.00			183	4	5	6		
3	11.00			211	8	6	6		
		2.00		312	13	4	3		
		4.00		120	1	3	1		
4	9.00			—	7	—	4		
5	11.30			50	15	2	1		
8	10.30			224	14	82	—		
11		3.30		120	8	5	0		
		3.30			73		3		
12		6.00		120	12	0	6		
13		5.00		195	136	11	12		
15	11.30			90	53	120	25		
	11.30				54		—		
18	12.00			10	18	2	6		
	12.00				8		1		
19	10.00			11	3	2	2		
	12.00			3	0	1	1		
		5.00		15	15	1	3		
		6.00			12		2		
20	10.00					2	1		
		1.00		6	4	0	6		
		3.00		42		5	1		
		3.15			3	2	1		
		3.30		5	3	5	2		
		3.45		3	3	3	1		
		4.00		6	4	3			
		4.15		1	3	1	2		
		4.30		1	2	1	3		
		4.45		7	8	4	0		

DIX D.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
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TABLE 1. APPENDIX D—SAND

EXPERIMENTAL STATION. TANK "B"—RATE 5,000,000 GALLONS

Date.	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C Inf	18°-22°C Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent 1 C.C.	Influent 5 C.C.	Influent 10 C.C.
1912										
	.....	5.00	.....	11	4	4	1	.....	.....	.....
June 21....	9.30	11.00	.....	.....	.....	.....	.....	.....	.....	.....
	11.00	.....	.....	.....	.....	.....	2	.....	.....	.....
	12.00	.....	.....	6	12	0	1	.....	.....	.....
	.....	3.30	.....	12	12	4	2	.....	.....	.....
21....	.....	4.00	.....	45	7	0	2	.....	.....	.....
	.....	4.15	.....	35	13	0	0	.....	.....	.....
	.....	4.30	.....	45	14	1	0	.....	.....	.....
	.....	5.00	.....	20	7	5	1	.....	.....	.....
22....	10.00	.....	.....	11	9	0	1	.....	.....	.....
	.....	12.00	.....	36	9	0	0	.....	.....	.....
	.....	1.00	.....	87	6	2	2	.....	.....	.....
24....	10.00	.....	.....	.....	8	2	4	.....	.....	.....
	11.55	.....	.....	.....	.....	.....	.....	.....	.....	.....
	12.00	.....	.....	46	12	8	5	.....	.....	+
	12.15	.....	.....	500	18	330	4	.....	.....	+
	12.30	.....	.....	600	12	390	5	.....	.....	+
	12.45	.....	.....	800	11	440	2	+	+	.....
	.....	1.00	.....	880	11	440	3	+	+	.....
	.....	1.15	.....	820	6	480	4	+	+	.....
								.01 C.C.	.02 C.C.	.05 C.C.
	.....	1.30	.....	960	12	480	—	.....	.....	+
	.....	1.45	.....	2,400	13	800	13	+	+ G	+
	.....	2.00	.....	2,200	52	1,270	18	0	—	+
	.....	2.15	.....	4,500	100	1,440	60	+	+	+
	.....	2.30	.....	3,700	160	1,200	116	C	0	+
	.....	2.45	.....	3,700	220	1,480	140	.....	.....	+
	.....	3.00	.....	2,400	172	1,550	116	.....	0	+
	.....	3.15	.....	3,300	230	2,140	130	+	+	+
	.....	3.30	.....	3.000	200	2,400	140	0	+	+
	.....	3.45	.....	1,000	300	600	220	0	0	0
	.....	4.00	.....	420	370	400	225	0	+	+
	.....	4.15	.....	—	370	170	230	0	0	0
								.01 C.C.	.02 C.C.	.05 C.C.
	.....	4.30	.....	1,100	380	300	161	0	0	0
	.....	4.45	.....	1,200	300	150	170	0	0	+
	.....	5.00	.....	1.000	450	200	230	.....	.....	.....
	.....	5.15	.....	700	315	250	240	0	0	0
	.....	5.30	.....	2,100	380	700	220	0	+	+
	.....	5.55	.....	470	330	.....	200	0	0	0
	.....	7.30	.....	900	290	300	232	0	0	0
								1 C.C.	5 C.C.	10 C.C.
25....	.....	3.30	.....	34	22	2	0	0	0	0
	.....	4.00	.....	360	33	5	1	0	0	0
	.....	4.30	.....	115	21	1	3	0	0	0
26....	10.00	.....	.....	13	15	2	2	0	0	0
	12.00	.....	.....	100	17	.....	1	0	0	0
27....	12.00	.....	.....	8	24	6	7	0	0	0
	12.30	.....	.....	14	21	4	0	0	0	0

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli

Influent.					Effluent.								
15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C. C.	
0	0	.....	00	.....	.....	0	0	.....	0	.....	.....	00	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	0	.....	0	.....	.....	00	.....
0	0	.....	.....	00	.....	.....	0	.....	0	.....	.....	00	.....
0	0	.....	.....	00	.....	.....	0	.....	0	.....	.....	00	.....
0	0	.....	.....	00	.....	.....	0	.....	0	.....	.....	00	.....
0	0	.....	.....	00	.....	.....	0	.....	0	.....	.....	00	.....
0	0	.....	.....	00	.....	.....	0	.....	0	.....	.....	00	.....
0	0	.....	.....	00	.....	.....	0	.....	0	.....	.....	00	.....
0	0	.....	.....	00	.....	.....	0	.....	0	.....	.....	00	.....
0	0	.....	.....	00	.....	.....	0	.....	0	.....	.....	00	.....
0	0	.....	.....	00	0	.....	0	.....	0	.....	.....	00	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	+	.....	.....	++	0	.....	0	.....	0	.....	.....	00	.....
.....	+	.....	.....	+	0	.....	0	.....	0	.....	.....	00	.....
.....	+	.....	.....	+	0	.....	0	.....	0	.....	.....	00	.....
+	+	.....	.....	.....	0	.....	0	.....	0	.....	.....	00	.....
+	+	.....	.....	.....	0	.....	0	.....	0	.....	.....	00	.....
+	+	.....	.....	.....	0	.....	0	.....	0	.....	.....	.....	.....
.1 C.C.	1 C C..	5 C.C.	10 C.C.										
+	+	+	.....	.....	0	.....	0	.....	0	.....	.....	— —	.....
+	+	+	.....	.....	.....	.....	+	.....	+	.....	.....	++	.....
+	+	+	.....	.....	.....	.....	+	.....	+	.....	.....	++	.....
+	+	+	.....	.....	+	+	+	.....	+	.....	.....	++	.....
+	+	+	.....	.....	+	+	+	.....	+	.....	.....	++	.....
+	+	+	.....	.....	+	+	+	.....	.....	.....	.....	.....	$\frac{1}{10}$cc + G
+	+	+	.....	.....	+	+	+	.....	.....	.....	.....	.....	—
+	+	+	.....	.....	+	+	+	.....	+	.....	.....	.....	0
+	+	+	.....	.....	+	+	+	.....	.....	.....	.....	.....	0 G
+	+	+	.....	.....	+	+	+	.....	.....	.....	.....	.....	—
+	+	+	.....	.....	+	+	+	.....	.....	.....	.....	.....	+
0	+	+	.....	.....	+	+	+	.....	.....	.....	.....	.....	0
.1 C.C.	5 C.C.	10 C.C.											
0	+	+	.....	.....	+	+	+	.....	.....	.....	.....	.....	+
+	+	+	.....	.....	+	+	+	.....	.....	.....	.....	.....	+
					—								—
0	+	+	.....	.....	+	+	.....	.....	.....	.....	.....	.....	—
+	+	+	.....	.....	+	+	+	.....	.....	.....	.....	.....	—
0	+	+	.....	.....	+	.....	.....	.....	.....	.....	.....	.....	0
+	+	+	.....	.....	+	+	+	.....	.....	.....	.....	++	0
15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.									
.....	0	.....	.....	00	0	+	+	.....	+	.....	.....	++	.....
.....	0	.....	.....	00	0	+	+	.....	+	.....	.....	++	.....
.....	0	.....	.....	00	0	+	+	.....	+	.....	.....	++	.....
.....	0	.....	.....	00	0	+	+	.....	+	.....	.....	++	.....
.....	0	.....	.....	00	0	+	+	.....	+	.....	.....	++	.....
.....	0	.....	.....	.....	0	0	+	.....	+	.....	.....	+	.....
.....	0	.....	.....	.....	0	0	+	.....	+	.....	.....	+	.....

TABLE 1. APPENDIX D—SAND

EXPERIMENTAL STATION. TANK "B"—RATE 5,000,000 GALLONS

Date	Hour. A.M.	Hour. P.M.	Serial No.	Bacterial Counts. 18°-22°C, Inf.	18°-22°C, Eff.	37.5°C. Inf.	37.5°C. Eff.	Influent 1 C.C.	Influent 5 C.C.	Influent 10 C.C.
1912										
June 27....	.....	6.00	.....	80	5	3	0	0	0	0
28....	10.00	.....	.....	44	65	—	2	.....	.....	.....
	10.30	.....	.....	.....		.....	2	.....	.....	.....
	11.00	.....	.....	.....	56	.....	2	.....	.....	.....
	11.30	.....	.....	.....	56	.....	2	.....	.....	.....
	12.00	.....	.....	180	36	2	3	0	0	0
	.....	2.30	.....	.....	24	.....	2	.....	.....	.....
	.....	3.00	.....	.....	40	.....	3	.....	.....	.....
	.....	3.30	.....	.....	46	.....		.....	.....	.....
	.....	4.00	.....	.....	62	.....	2	.....	.....	.....
	.....	4.30	.....	.....	40	.....	2	.....	.....	.....
	.....	5.00	.....	90		3	0	0	0	0
29....	10.00	.....	.....	86	63	3	2	0	0	0
	11.00	.....	.....	60	47	5	3	0	0	0
	12.00	.....	.....	170			6	0	0	0

TABLE 2. TANK "B"—RATE 5,000,000 GALLONS

Date.	Hour. Noon.	Guage No.	Depth to Gauge	Bacterial Counts. 18°. 22° C Inf.	18°. 22° C Eff.	37.5° C Inf.	37.5° C Eff.	Influent. 1 C.C.	Influent. 5 C.C.
1912									
June 27.....	12.00	Top	.....	8	.....	6	.....	0	0
	12.30	"	.....	14	.....	4	.....	0	0
"	12.00	1	6 in. sand	.....	33	.....	4	.....	.....
	12.30	"	.....	.....	30	.....	11	.....	.....
"	12.00	2	13 in. sand	.....	30	.....	8	.....	.....
	12.30	"	.....	.....	34	.....	3	.....	.....
"	12.00	3	19 in. sand	.....	21	.....	2	.....	.....
	12.30	"	.....	.....	26	.....	5	.....	.....
"	12.00	4	26 in. sand	.....	22	.....	3	.....	.....
	12.30	"	.....	.....	40	.....	1	.....	.....
"	12.00	5	33 in. sand	.....	19	.....	4	.....	.....
	12.30	"	.....	.....	20	.....	3	.....	.....
"	12.00	6	40 in. sand	.....	43	.....	3	.....	.....
	12.30	"	.....	.....	33	.....	4	.....	.....
"	12.00	orifice	under drains	.....	24	.....	7	.....	.....
	12.30	box	.....	.....	21	.....	0	.....	.....

Colon present from dose of sewage

Continued.

FILTERS.

PER ACRE PER DAY.

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
.....	0	.....	.....	.....	0	0	+	.....	÷	.....	.....	+	.....
.....	0	.....	.....	0	0	0	0	.....	+	0	.....	+	.....
.....	.....	.....	.....	.....	0	0	0	.....	0	0	.....	+	.....
.....	.....	.....	.....	.....	0	0	+	.....	+	+	.....	+	.....
.....	.....	.....	.....	.....	0	0	0	.....	+	+	.....	+	.....
.....	0	.....	.....	0	0	+	0	.....	0	+	.....	+	.....
.....	.....	.....	.....	.....	0	0	0 G	.....	+	0	.....	+	.....
.....	.....	.....	.....	.....	0	+	—	.....	0	+	.....	+	.....
.....	.....	.....	.....	.....	0	0	0	.....	0	+	.....	+	.....
.....	.....	.....	.....	.....	0	0	0	.....	+	+	.....	+	.....
.....	.....	.....	.....	.....	0	0	+	.....	0	+	.....	G —	.....
.....	0	.....	.....	0	0	0	+	.....	÷	+	.....	+	.....
.....	0	.....	.....	0	0	0	0	.....	+	0	.....	+	.....
.....	0	.....	.....	0	0	0	0	.....	+	+	.....	+	.....
.....	0	.....	.....	0	0	0	0	.....	0	0	.....	0	.....

PER ACRE PER DAY. "INTERNAL COUNTS."

Colon Bacilli.

Influent						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	.....
0	.....	.....	0	.....	0	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	0	0	0	.....	.....	0	.....	0
.....	.....	.....	.....	.....	.....	0	0	0	.....	.....	0	.....	0
.....	.....	.....	.....	.....	.....	0	0	0	.....	.....	0	.....	0
.....	.....	.....	.....	.....	.....	0	0	0	.....	.....	0	.....	0
.....	.....	.....	.....	.....	.....	0	0	0	.....	.....	0	.....	0
.....	.....	.....	.....	.....	.....	0	0	0	.....	.....	0	.....	0
.....	.....	.....	.....	.....	.....	0	0	+	.....	.....	+	+	+
.....	.....	.....	.....	.....	.....	0	0	0	.....	.....	+	.....	+
.....	.....	.....	.....	.....	.....	0	+	0	.....	.....	0	.....	+
.....	.....	.....	.....	.....	.....	0	0	+	.....	.....	+	.....	+
.....	.....	.....	.....	.....	.....	0	+	+	.....	.....	+	+	+
.....	.....	.....	.....	.....	.....	0	+	0	.....	.....	+	.....	+
.....	.....	.....	.....	.....	.....	0	0	+	.....	.....	+	+	+
.....	.....	.....	.....	.....	.....	0	0	+	.....	.....	+	.....	+

added at noon, June 24th, 1912.

TABLE 3. APPENDIX D—SAND

TANK "B"—RATE 5,000,000 GALLONS

EXPERIMENTAL STATION.

Date.	Hour. P.M.	Gauge No.	Depth to Gauge.	Bacterial Counts. 18°. 22°C Inf.	18°. 22°C Eff.	37.5° C Inf.	37.5° C Eff.	Influent. 1 C.C.	Influent. 2 C.C.
1912 July 2.....	5.15	1	6 in. sand	850	584	640	50	.....	.....
	6.00	"	.....	4,300	1,950	1,360	130	.....	.....
	7.30	"	.....	6,100	sp.	1,900	sp.	.....	.....
	10.00	"	.....	—	680	1,600	165	.....	.....
	5.15	2	13 in. sand	.....	194	.....	18	.....	.....
	6.00	"	.....	.....	125	.....	—	.....	.....
	7.30	"	.....	.....	1,750	.....	sp.	.....	.....
	10.00	"	.....	.....	860	.....	240	.....	.....
	5.15	3	19 in. sand	.....	103	.....	10	.....	.....
	6.00	"	.....	.....	1,400	.....	145	.....	.....
	7.30	"	.....	.....	904	.....	270	.....	.....
	10.00	"	.....	.....	442	.....	100	.....	.....
	5.15	4	26 in. sand	.....	156	.....	2	.....	.....
	6.00	"	.....	.....	359	.....	30	.....	.....
	7.30	"	.....	.....	2,170	.....	180	.....	.....
	10.00	"	.....	.....	580	.....	96	.....	.....
	5.15	5	33 in. sand	.....	86	.....	19	.....	.....
	6.00	"	.....	.....	480	.....	52	.....	.....
	7.30	"	.....	.....	1,260	.....	260	.....	.....
	10.00	"	.....	.....	660	.....	83	.....	.....
	5.15	6	40 in. sand	.....	88	.....	16	.....	.....
	6.00	"	.....	.....	120	.....	10	.....	.....
	7.30	"	.....	.....	105	.....	—	.....	.....
	10.00	"	.....	.....	380	.....	spreader	.....	.....
	5.15	orifice box		850	138	640	3	.....	.....
	6.00	"	.....	4,300	372	1,360	3	.....	.....
	7.30	"	.....	6,100	1,080	1,900	230	.....	.....
	10.00	"	.....	—	880	1,600	375	.....	.....

Started to add sewage at 4.45 p.m.

1–100c.c. 1–50c.c. relates to two analysis immediately

Continued.

FILTERS.

PER ACRE PER DAY. "INTERNAL COUNTS."

Colon Bacilli.

Influent.						Effluent.							
10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C.	1 C.C.	5 C.C.	10 C.C.	15 C.C.	20 C.C.	30 C.C.	40 C.C.	50 C.C
.....	.....	.....	.....	.....	.....	+	+	+	.....	+	.....	.....	+
.....	.....	.....	.....	.....	.....	+	+	+	.....	+	.....	.....	+
						1-100c.c.	1-50c.c.	1-10	1	5	10		
.....	.....	.....	.....	.....	.....	0	0	0	+	+	+	.....	.....
.....	.....	.....	.....	.....	.....	0	—	—	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	+	+	+	.....	+	.....	.....	+
.....	.....	.....	.....	.....	.....	+	+	+	.....	+	.....	.....	+
						1-100	1-50	1-10	1	5	10	.....	.....
.....	.....	.....	.....	.....	.....	0	0	0	+	+	+	.....	.....
.....	.....	.....	.....	.....	.....	—	—	—	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	+	+	+	.....	+	.....	.....	+
						1-100	1-50	1-10	1	5	10		
.....	.....	.....	.....	.....	.....	0	0	0	+	+	+	.....	.....
.....	.....	.....	.....	.....	.....	0	—	—	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	0	0	0	.....	0	.....	.....	0
.....	.....	.....	.....	.....	.....	+	+	+	.....	+	.....	.....	+
						1-100	1-50	1-10	1	5	10		
.....	.....	.....	.....	.....	.....	0	0	—	+	+	+	.....	.....
.....	.....	.....	.....	.....	.....	0	0	0	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	0	0	0	.....	+	.....	.....	+
.....	.....	.....	.....	.....	.....	+	+	+	.....	+	.....	.....	+
						1-100	1-50	1-10	1	5	10		
.....	.....	.....	.....	.....	.....	0	—	+	+	+	+	.....	.....
.....	.....	.....	.....	.....	.....	0	0	—	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	0	0	—	.....	+	.....	.....	+
.....	.....	.....	.....	.....	.....	0	—	0	.....	.....	.....	.....	+
						1-100	1-50	1-10	1	5	10		
.....	.....	.....	.....	.....	.....	0	0	0	+	0	0		
.....	.....	.....	.....	.....	.....	0	—	+	+	+	.....	.....	.....
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	0	+	+	.....	.....	+	.....	+
						1-100	1-50	1-10	1	5	10		
.....	.....	.....	.....	.....	.....	+	+	+	+	+	+	.....	.....
.....	.....	.....	.....	.....	.....	—	—	+	+	+	.....	.....	.....

stopped adding at 7.30 p.m.

following next set use heading of page 1c.c., 2c.c., etc.

APPENDIX E.

EXPERIMENTAL STATION.

SAND FILTERS.—APPENDIX E.

LOSS OF HEAD AND HOURS RUN.

Date and hour	Tank A		Tank B		Tank C		Tank D		Remarks
	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	
1909									
Sep. 15..10.20..	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
" 16..10.20..	2.45	24.0	1.95	24.0	1.35	24.0	0.61	24.0	
" 17..10.15..	4.25	48.0	3.0	48.0	.....	.....	0.8	48.0	
4.15..	0.0	0.0	3.3	54.0	1.9	42.0	.....	.....	
4.30..	2.5	0.25	.....	.....	.....	.....	.....	.....	
" 18.. 9.30..	2.35	17.25	.....	.....	.....	.....	0.9	71.25	
11.45..	.....	.....	0.0	0.0	.....	.....	.....	.....	
12.00..	.....	.....	1.9	0.25	2.2	61.75	.....	.....	
" 20..11.00..	3.3	67.75	3.15	47.25	3.3	108.75	1.5	120.75	
4.00..	0.0	0.0	3.3	52.25	0.0	0.0	.....	.....	
" 21.. 9.30..	3.3	17.5	.....	.....	.....	.....	2.0	143.25	
11.45..	.....	.....	0.0	0.0	.....	.....	.....	.....	
3.00..	0.0	0.0	1.8	4.25	2.1	23.0	.....	.....	
" 22.. 9.20..	2.55	18.5	2.15	19.75	2.15	41.5	2.3	167.25	
2.15..	.....	.....	.....	.....	3.3	46.5	.....	.....	
" 23.. 9.30..	3.3	42.5	3.3	43.75	.....	.....	2.95	191.25	
12.45..	0.0	0.0	1.9	0.0	.....	.....	3.3	194.5	
1.00..	2.2	0.75	.....	.....	.....	.....	.....	.....	
5.00..	.....	.....	.....	.....	.....	.....	0.0	0.0	
5.30..	.....	.....	.....	.....	0.0	0.0	.....	.....	
" 24.. 9.30..	2.15	21.25	1.45	20.5	2.0	16.0	0.7	16.5	
" 25.. 9.30..	3.0	45.25	2.05	44.5	2.2	40.0	0.65	40.5	
11.30..	3.3	47.25	.....	.....	.....	.....	.....	.....	
3.30..	0.0	0.0	.....	.....	.....	.....	.....	.....	
" 27.. 8.30..	.....	.....	3.3	111.5	3.3	87.0	.....	.....	
12.00..	.....	.....	.....	.....	.....	.....	1.0	90.5	
12.30..	.....	.....	0.0	0.0	0.0	0.0	.....	.....	
1.00..	2.9	45.5	2.0	0.5	1.9	0.5	.....	.....	
3.00..	3.2	47.5	1.8	2.5	.....	.....	1.0	93.5	
" 28.. 9.30..	0.0	0.0	1.8	21.0	2.1	21.0	1.25	102.0	
" 29.. 9.30..	.....	.....	.....	.....	2.1	45.0	.....	.....	
4.00..	28.5	30.5	3.1	51.5	.....	.....	1.8	132.5	
4.30..	.....	.....	3.3	52.0	.....	.....	.....	.....	
" 30.. 9.30..	3.3	48.0	.....	.....	3.0	69.0	2.25	150.0	
5.00..	.....	.....	.....	.....	3.3	76.5	.....	.....	
Oct. 1.. 3.00..	.....	.....	.....	.....	.....	.....	3.15	179.5	
" 30.. 2.50..	0.0	0.0	0.0	0.0	.....	.....	.....	.....	
" 1..11.05..	.....	.....	.....	.....	0.0	0.0	.....	.....	
.. 3.00..	3.0	0.25	3.0	0.25	1.8	4.0	.....	.....	
" 2..10.45..	.....	.....	.....	.....	.....	.....	0.0	0.0	
10.50..	3.3	20.0	.....	.....	.....	.....	.....	.....	
12.00..	.....	.....	2.6	21.25	1.6	25.0	1.0	1.25	
1.00..	0.0	0.0	.....	.....	.....	.....	.....	.....	
" 4.. 9.30..	.....	.....	3.3	66.75	.....	.....	.....	.....	
12.00..	3.3	47.0	.....	.....	.....	.....	.....	.....	
3.00..	.....	.....	0.0	0.0	.....	.....	.....	.....	
4.00..	.....	.....	2.4	1.0	2.0	76.5	0.9	52.25	
4.45..	0.0	0.0	.....	.....	.....	.....	.....	.....	
" 5.. 9.30..	2.15	16.75	2.1	18.5	2.5	94.0	0.9	69.75	
12.00..	2.25	19.25	3.05	21.0	2.5	96.5	0.9	71.25	
4.00..	2.15	23.25	2.4	25.0	2.65	100.5	1.0	75.25	
" 6.. 9.30..	2.1	40.75	18.5	42.5	3.3	118.0	1.0	92.75	
9.45..	.....	.....	.....	.....	3.3	118.25	.....	.....	
12.00..	2.1	43.25	2.05	45.0	.....	.....	1.1	95.25	
3.30..	.....	.....	.....	.....	0.0	0.0	.....	.....	
4.00..	2.3	47.25	1.85	49.0	1.55	0.5	1.5	99.25	
" 7.. 9.30..	2.9	64.75	2.3	66.5	1.5	18.0	1.25	116.75	
12.00..	3.0	67.25	2.4	69.0	1.5	20.5	.....	.....	
3.00..	3.3	70.25	.....	.....	.....	.....	.....	.....	
4.00..	.....	.....	2.50	73.0	1.4	24.5	1.3	123.25	

EXPERIMENTAL STATION.

Sand Filters.—Appendix E.

Loss of Head and Hours Run.

Date and hour	Tank A		Tank B		Tank C		Tank D		Remarks
	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	
1909									
Oct, 8.. 9.20..	.....	.....	3.0	90.5	1.3	42.0	1.5	140.75	
10.15..	0.0	0.0	.....	.....	.....	.....	.....	.....	
12.00..	2.9	1.75	3.2	93.0	1.3	44.5	1.5	143.25	
12.45..	.....	.....	3.3	93.75	.....	.....	.....	.....	
4.00..	2.75	5.75	.....	.....	1.3	48.5	1.55	147.25	
5.00..	.....	.....	0.0	0.0	.....	.....	.....	.....	
" 9.. 9.30..	2.3	23.25	2.1	16.5	1.3	66.0	1.8	164.75	
12.00..	2.85	25.75	2.1	19.0	1.3	68.5	1.8	167.25	
" 11.. 9.30..	2.75	71.25	1.9	64.5	1.75	134.0	2.4	212.75	
12.00..	2.85	73.75	2.0	67.0	1.8	136.5	2.45	215.25	
4.00..	3.05	77.75	1.9	71.0	1.8	140.5	2.6	219.25	
" 12.. 7.00..	3.3	92.75	.....	.....	.....	.....	.....	.....	
9.30..	.....	.....	2.25	88.5	2.05	158.0	2.9	236.75	
12.00..	.....	.....	2.3	91.0	2.1	160.5	2.95	239.25	
12.45..	0.0	0.0	.....	.....	.....	.....	.....	.....	
4.00..	2.2	4.25	2.4	95.0	2.25	164.25	2.9	243.25	
" 13.. 9.30..	1.9	21.75	3.0	112.5	2.7	182.5	3.2	250.75	
11.30..	.....	.....	.....	.....	.....	.....	3.3	252.75	
12.00..	1.9	24.25	3.1	115.0	2.8	185.0	.....	.....	
4.00..	1.8	28.25	3.25	119.0	2.9	189.0	.....	.....	
" 14.. 9.30..	2.0	45.75	4.25	136.5	4.25	206.5	.....	.....	
11.30..	.....	.....	.....	.....	.....	.....	0.0	0.0	
12.00..	2.05	48.25	.....	.....	.....	.....	.....	.....	
4.00..	2.1	52.25	.....	.....	.....	.....	1.0	4.5	
" 15.. 9.30..	2.5	69.75	.....	.....	.....	.....	0.8	22.0	
12.00..	2.7	72.25	.....	.....	.....	.....	0.8	24.5	
12.15..	.....	.....	0.0	0.0	0.0	0.0	.....	.....	
4.00..	3.1	76.25	2.2	3.75	1.6	3.75	0.8	28.5	
5.00..	3.3	77.25	.....	.....	.....	.....	.....	.....	
" 16.. 9.30..	.....	.....	1.9	21.25	1.5	21.25	0.8	46.0	
12.00..	.....	.....	1.7	23.75	1.5	23.75	0.8	48.5	
12.30..	0.0	0.0	.....	.....	.....	.....	.....	.....	
" 18..10.30..	2.6	44.5	2.2	70.25	1.5	70.25	0.8	83.0	
12.00..	2.7	48.0	2.25	71.75	1.6	71.75	0.8	84.5	
3.30..	2.7	51.5	2.4	75.25	1.6	75.25	0.8	88.0	
" 19.. 9.30..	3.6	69.5	3.15	93.25	2.0	93.25	1.0	106.0	
10.45..	.....	.....	3.3	95.0	.....	.....	.....	.....	
3.30..	0.0	0.0	0.0	0.0	.....	.....	.....	.....	
4.00..	3.0	0.5	.....	0.5	2.1	100.75	1.0	112.5	
" 20 9.30..	2.15	18.0	0.0	0.0	2.6	118.25	1.1	129.5	
12.00..	2.15	20.5	1.8	2.5	2.75	120.75	1.15	132.0	
3.30..	.....	.....	.....	.....	3.3	124.25	.....	.....	
4.00..	2.35	24.5	2,0	6.5	.....	.....	1.5	136.0	
" 21.. 9.30..	3.7	41.5	2.8	24.0	.....	.....	1.8	153.5	
11.15..	.....	.....	.....	.....	0.0	0.0	.....	.....	
12.00..	.....	.....	3.3	26.5	1.9	0.75	1.8	156.0	
1.00..	.....	.....	3.3	27.5	.....	.....	.....	.....	
3.45..	0.0	0.0	.....	.....	.....	.....	.....	.....	
4.00..	2.5	0.25	.....	.....	1.8	4.75	1.9	160.0	
4.30..	.....	.....	0.0	0.0	.....	.....	.....	.....	
" 22.. 9.00..	3.3	17.25	3.3	16.5	3.3	21.75	3.3	177.0	
" 26.. 3.30..	0.0	0.0	0.0	0.0	0.0	0.0	.....	.....	
4.00..	2.9	0.5	2.9	0.5	2.1	0.5	.....	.....	
4.45..	.....	.....	.....	.....	.....	.....	0.0	0.0	
" 27.. 9.30..	2.4	18.0	2.15	18.0	1.5	18.0	0.9	16.75	
12.00..	2.3	20.5	2.1	20.5	1.35	20.5	0.9	19.25	
4.00..	2.2	24.5	2.1	24.5	1.3	24.5	0.9	23.25	
" 28..12.00..	2.2	44.5	1.6	44.5	1.1	44.5	0.9	43.25	
4.00..	2.35	48.5	1.7	48.5	1.1	48.5	0.8	47.25	

EXPERIMENTAL STATION.

SAND FILTERS.—APPENDIX E.

LOSS OF HEAD AND HOURS RUN.

Date and hour	Tank A		Tank B		Tank C		Tank D		Remarks
	Total loss of head	Hours run	Total Loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	
1909									
Oct. 29.. 3.00..	3.15	59.5	2.1	71.5	1.2	71.5	0.8	70.25	
" 30.. 9.30..	.....	.....	2.8	90.0	1.4	89.5	0.9	88.75	
12.00..	0.0	0.0	3.1	92.5	1.5	92.0	0.9	91.25	
Nov. 1.. 9.30..	2.2	21.5	.....	.....	2.5	113.5	1.3	112.75	
11.30..	.....	.....	0.0	0.0	.....	.....	.....	.....	
12.00..	2.35	24.0	2.5	0.5	3.0	116.0	1.6	115.25	
3.00..	2.6	27.0	2.6	3.5	3.0	119.0	1.6	118.25	
5.00..	.....	.....	.....	.....	3.3	121.0	.....	.....	
" 2..10.00..	3.3	44.0	.....	.....	.....	.....	.....	.....	
" 3.. 4.00..	.....	.....	2.0	26.5	.....	.....	2.55	155.25	
" 5.. 9.30..	0.0	0.0	2.5	68.0	0.0	0.0	3.0	196.75	
12.00..	2.6	2.5	2.6	70.5	1.5	2.5	3.1	199.25	
3.00..	2.55	5.5	2.65	73.5	1.4	5.5	3.15	202.25	
5.00..	.....	.....	.....	.....	.....	.....	3.3	204.25	
" 6.. 9.30..	1.8	24.0	3.3	92.0	1.15	24.0	.....	.....	
10.00..	.....	.....	3.3	92.5	.....	.....	.....	.....	
12.00..	1.8	26.5	.....	.....	1.1	26.5	.....	.....	
1.00..	.....	.....	0.0	0.0	.....	.....	0.0	0.0	
" 8..12.00..	2.7	74.5	1.6	47.0	1.0	74.5	0.7	47.0	
4.00..	3.0	78.5	1.7	51.0	1.1	78.5	0.7	51.0	
" 9.. 9.30..	3.3	96.0	.....	.....	.....	.....	.....	.....	
10.00..	.....	.....	2.1	69.0	1.4	96.5	0.7	69.0	
12.00..	.....	.....	2.2	71.0	1.5	98.5	0.7	71.0	
3.45..	0.0	0.0	.....	.....	.....	.....	.....	.....	
4.00..	2.8	0.25	2.6	75.0	1.7	102.5	0.7	75.0	
" 10.. 9.30..	3.3	17.75	3.3	92.5	3.3	120.0	1.3	92.5	
12.00..	.....	.....	.....	.....	.....	.....	1.4	95.0	
3.00..	0.0	0.0	.....	.....	.....	.....	.....	.....	
4.00..	3.0	1.0	.....	.....	.....	.....	1.6	99.0	
" 11.. 9.30..	2.8	18.5	.....	.....	.....	.....	2.4	116.5	
12.00..	3.05	21.0	0.0	0.0	0.0	0.0	2.65	119.0	
3.30..	3.6	24.5	2.4	3.5	1.7	3.5	2.8	122.5	
4.00..	3.6	25.0	.....	.....	.....	.....	.....	.....	
" 12.. 9.30..	.....	.....	2.3	21.5	1.4	21.5	3.5	140.5	
12.00..	0.0	0.0	.....	.....	.....	.....	.....	.....	
3.00..	2.6	3.0	2.3	27.0	1.5	27.0	.....	.....	
" 13.. 9.30..	2.05	21.5	2.8	45.5	1.6	45.5	.....	.....	
10.00..	.....	.....	.....	.....	.....	.....	0.0	0.0	
12.00..	2.2	24.0	2.9	48.0	1.7	48.0	0.9	2.0	
1.00..	.....	.....	3.3	49.0	.....	.....	.....	.....	
" 15.. 9.30..	3.3	45.5	.....	.....	3.2	93.5	0.8	47.5	
12.00..	.....	.....	.....	.....	3.3	96.0	0.8	50.0	
4.00..	.....	.....	.....	.....	.....	.....	0.9	54.0	
" 16.. 9.30..	.....	.....	.....	.....	.....	.....	0.9	71.5	
2.00..	.....	.....	0.0	0.0	0.0	0.0	.....	.....	
3.30..	.....	.....	2.3	1.5	1.5	1.5	0.8	77.5	
" 17..12.00..	.....	.....	1.2	22.0	1.5	22.0	2.2	98.0	
4.00..	.....	.....	2.3	26.0	1.5	26.0	1.45	102.0	
" 18.. 9.30..	.....	.....	3.25	43.5	1.8	43.5	1.8	119.5	
10.00..	.....	.....	3.3	44.0	.....	.....	.....	.....	
12.00..	.....	.....	.....	.....	1.8	46.0	1.8	122.0	
4.00..	.....	.....	.....	.....	1.9	50.0	1.85	126.0	
" 19.. 9.30..	.....	.....	0.0	0.0	2.1	67.5	2.1	143.5	
12.00..	.....	.....	2.1	2.5	2.2	70.0	2.1	146.0	
" 22 3.00..	.....	.....	.....	.....	3.3	145.0	3.35	221.5	
3.30..	.....	.....	2.1	78.0	.....	.....	.....	.....	
" 23.. 9.00..	0.0	0.0	3.3	94.5	.....	.....	.....	.....	Tank A at 5 mill rate.
10.00..	0.8	0.25	.....	.....	.....	.....	.....	.....	
12.00..	0.8	2.25	.....	.....	.....	.....	.....	.....	

EXPERIMENTAL STATION.

SAND FILTERS.—APPENDIX E.

LOSS OF HEAD AND HOURS RUN.

Date and hour	Tank A		Tank B		Tank C		Tank D		Remarks
	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	
1910.									
Nov 23.. 3.30..	0.8	5.75	.....	.....	.....	.....	.....	.....	
" 24.. 9.30..	0.7	23.75	.....	.....	.....	.....	.....	.....	
3.30..	1.3	29.75	.....	.....	.....	.....	.....	.....	
" 27 10.00..	.....	.....	0.0	0.0	0.0	0.0	.....	.....	
Mar. 8..10.00..	.....	.....	2.2	0	3.7	.....	3.7	.....	
12.00..	.....	.....	2.1	2	.....	.....	.....	.....	
4.00..	.....	.....	2.1	6	.....	.....	.....	.....	
" 9..10.00..	1.2	0	1.8	24	3.5	.....	.....	.....	
12.00..	1.2	2	1.8	26	.....	.....	.....	.....	
4.00..	1.0	6	1.6	30	.....	.....	.....	.....	
" 10..10.00..	1.0	24	1.6	48	.....	.....	.....	.....	
12.00..	1.0	26	1.6	50	.....	.....	.....	.....	
4.00..	1.0	30	1.6	54	.....	.....	.....	.....	
" 11..10.00..	.9	48	1.6	72	3.4	0	.....	.....	
12.00..	.9	50	1.6	74	3.4	2	2.0	0	
4.00..	.9	54	1.6	78	3.3	6	2.5	4	
" 12..10.00..	.9	72	1.7	96	3.0	24	2.2	22	
12.00..	.9	74	1.7	98	3.0	26	2.1	24	
" 14..10.00..	.9	120	2.1	144	2.5	72	1.7	70	
12.00..	.9	122	2.2	146	2.6	74	1.7	72	
4.00..	.9	126	2.2	150	2.7	78	1.7	76	
" 15..10.00..	1.0	144	2.4	168	2.9	96	1.8	94	
12.00..	.9	146	2.6	170	2.9	98	1.9	96	
4.00..	.9	150	2.5	174	3.0	102	1.9	100	
" 16..10.00..	1.0	168	2.7	192	.....	.....	.....	.....	
12.00..	1.0	170	2.7	194	.....	.....	.....	.....	
4.00..	1.0	174	2.7	198	.....	.....	.....	.....	
" 17..10.00..	1.0	192	2.8	216	2.3	0	2.0	0	
12.00..	1.1	194	2.9	218	2.3	2	2.0	2	
4.00..	1.1	198	3.0	222	2.3	6	1.9	6	
" 18..10.00..	1.2	216	3.3	240	2.0	24	1.6	24	
12.00..	1.2	218	.....	.....	2.0	26	1.6	26	
4.00..	1.2	222	.....	.....	1.9	30	1.5	30	
" 19..10.00..	1.3	240	1.7	40	2.0	48	1.6	48	
" 21..10.00..	1.5	288	1.8	48	3.2	96	2.1	96	
12.00..	1.5	290	1.8	50	3.2	98	2.1	98	
4.00..	1.7	294	1.9	54	.....	.....	2.5	102	
" 22..10.00..	1.8	312	1.9	72	.....	.....	2.9	120	
12.00..	1.9	314	1.9	74	.....	.....	2.9	122	
4.00..	2.0	318	2.0	78	.....	.....	2.9	126	
" 23..10.00..	2.3	336	2.3	96	.....	.....	3.4	144	
12.00..	2.2	338	2.3	98	.....	.....	.....	.....	
4.00..	2.2	342	2.3	102	2.5	.....	.....	.....	
April 4..12.00..	1.2	0	2.5	0	3.5	.....	2.4	0	
4.00..	1.2	4	2.5	4	3.6	.....	2.4	4	
5.00..	1.4	22	2.7	22	.....	.....	3.1	22	
12.00..	1.4	24	2.7	24	.....	.....	3.1	24	
4.00..	1.4	28	2.7	28	.....	.....	3.1	28	
" 6..10.00..	1.6	46	3.0	46	.....	.....	.....	.....	
12.00..	1.6	48	3.1	48	3.3	0	.....	.....	
4.00..	1.6	52	3.2	52	3.3	4	.....	.....	
" 7..10.00..	1.8	70	.....	.....	3.3	22	.....	.....	
12.00..	1.8	72	.....	.....	3.5	24	.....	.....	
4.00..	1.8	76	.....	.....	3.5	28	.....	.....	
" 8..10.00..	2.0	94	.....	.....	3.5	46	.....	.....	
12.00..	2.0	96	.....	.....	3.4	48	2.1	10	
4.00..	2.0	106	.....	.....	3.5	52	2.0	204	
" 9..10.00..	2.0	118	.....	.....	3.7	70	1.9	122	
12.00..	2.2	120	.....	.....	.....	.....	2.0	224	

EXPERIMENTAL STATION.

Sand Filters.—Appendix E.

Loss of Head and Hours Run.

Date and hour	Tank A		Tank B		Tank C		Tank D		Remarks
	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	
1910									
April 28..10.30..	1.3	0	2.9	0	5.0	.....	3.0	.....	
12.00..	1.3	2	2.9	2	.....	.....	2.9	.....	
4.00..	1.4	6	3.0	6	.....	.....	3.3	.....	
" 29..10.00..	1.6	24	.....	.....	.....	.....	.....	.....	
12.00..	1.8	26	.....	.....	3.1	0	.....	.....	
4.00..	2.0	30	2.5	0	3.2	2	.....	.....	
.....	.....	.....	.....	.....	3.1	6	2.3	.....	
" 30..10.00..	2.7	48	2.3	18	3.5	24	2.4	18	
May 2..10.00..	2.2	96	2.2	66	3.1	72	2.2	66	
12.00..	2.5	98	2.3	68	.....	.....	2.4	68	[May 2nd.
4.00..	3.0	102	2.5	72	.....	.....	2.4	72	C start at 4.30 p.m.
" 3..10.00..	3.7	120	2.8	90	3.1	18	3.05	90	A stops at 10.00 a.m.
12.00..	.....	.....	2.9	92	3.1	20	3.25	92	
4.00..	.....	.....	3.0	96	3.1	24	3.6	96	
" 4..10.00..	.....	.....	3.5	114	3.5	42	5.3	114	
1.00..	.95	.....	3.9	117	3.75	45	.....	.....	
4.00..	1.00	3	4.05	120	3.95	48	.....	.....	
" 5..9.00..	.95	20	4.7	137	5.8	65	.....	.....	
12.00..	.90	23	.....	.....	.....	.....	.....	.....	
3.00..	.90	26	.....	.....	.....	.....	2.83	.....	
5.00..	.90	28	.....	.....	.....	.....	2.15	2	
" 6.. 9.30..	.91	44.5	.....	.....	.....	.....	2.62	18.5	
11.00..	.93	46	.....	.....	.....	.....	2.57	20	
3.15..	.93	50.25	2.28	.25	3.02	.5	2.55	34.25	C starts at 2.45 May 6.
4.15..	.96	51.25	2.26	1.25	3.00	1.5	2.56	25.25	
" 7..10.00..	.96	69	2.25	19	3.03	19.75	2.77	43	
11.30..	1.04	70.5	2.25	20.5	3.02	20.75	2.81	44.5	
" 9.. 9.30..	1.04	116.5	2.23	66.5	3.18	66.75	4.82	66.5	
1.30..	.99	120.5	2.32	70.5	3.38	70.75	.....	.....	D stopped at 9.30 a.m.
4.00..	1.00	123	2.33	73	3.49	73.25	.....	.....	C stopped at 4.30 p.m.
" 10..10.00..	1.1	141	2.33	91	.....	.....	.....	.....	
12.00..	1.12	143	2.34	93	.....	.....	.....	.....	C and D start at 3.45
4.00..	1.20	147	2.41	97	.....	.25	.....	.25	p.m. C—5 mill.
" 11..10.30..	1.42	165.5	2.95	115	1.25	18.75	2.66	18.75	
12.00..	1.44	117	2.75	117	1.26	20.75	2.66	20.75	
4.00..	1.48	171	2.80	121	1.23	24.75	2.66	24.75	
" 12.. 9.30..	1.75	188.5	3.15	138	1.20	42.25	2.68	42.25	
12.00..	1.77	191.	3.21	140.5	1.21	44.75	2.67	44.75	
4.30..	1.83	195.5	3.51	145	1.23	49.25	2.68	49.25	B stopped at 4.30 p.m.
" 13..10.30..	1.95	213.5	.....	.....	1.28	67.25	2.71	67.25	
12.15..	1.95	215.25	.....	.....	1.26	69	2.79	69	
3.45..	.....	.....	2.42	.75	1.26	.....	2.78	.....	B started at 3.00 p.m.,
" 14.. 9.30..	2.20	236	2.27	18.5	1.25	90.25	3.24	90.25	May 13.
12.00..	2.21	238.5	2.27	21	1.31	92.75	3.29	92.75	
" 16..10.30..	2.26	285	1.96	67.5	1.31	139.25	.....	.....	
2.00..	2.37	288.5	1.97	71	1.33	142.75	.....	.....	D started at 2.45 p.m.
4.30..	2.33	291.5	1.89	73.5	1.42	145.25	2.66	0	
" 17..10.00..	3.07	308.5	2.22	91	1.95	162.75	2.59	17.5	
11.30..	3.22	310.5	2.34	92.5	2.05	164.25	2.61	19	
4.30..	3.48	315.5	2.85	97.5	2.38	169.25	2.78	24	
" 18.. 9.30..	.....	.....	4.37	114.5	3.42	186.25	4.50	41	
.....	.....	.....	.....	.....	.....	.....	.....	.....	A, B, C and D started
" 21.. 1.00..	1.17	2	2.90	2	3.03	2	2.97	2	at 11.00 a.m. May 21
" 23.. 9.30..	1.36	44.5	2.98	44.5	5.07	44.5	5.67	44.5	
12.00..	1.45	47	3.27	47	2.21	47	2.32	47	D and C at 5 million
4.00..	1.75	51	3.45	51	.....	.....	.....	.....	gal. rate.
" 25..10.00..	2.97	93	5.27	93	.....	.....	.....	.....	
2.00..	3.12	97	.....	.....	.....	.....	.....	.....	
4.00..	4.30	99	.....	.....	.....	.....	.....	.....	

EXPERIMENTAL STATION.

Sand Filters.—Appendix E.

Loss of Head and Hours Run.

Date and hour	Tank A		Tank B		Tank C		Tank D		Remarks
	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	
1910.									
May 26..10.00..	4.10	117	.....	.....	2.94	0	1.41	0	
12.00..	.....	.....	.....	.....	2.77	2	1.41	2	
5.00..	.....	.....	.....	.....	2.75	7	1.43	7	
" 27.. 9.30..	.....	.....	.....	.....	3.00	23.5	1.48	23.5	
2.00..	.....	.....	.....	.....	3.21	28	1.61	28	
5.00..	.....	.....	2.21	0	3.47	31	1.69	31	D at 7 million rate.
" 28..10.30..	.....	.....	2.09	17.5	4.47	48.5	2.07	48.5	
12.00..	.....	.....	2.11	19	.....	.....	2.15	50	C resting to see if head
2.00..	1.43	0	.....	21	.....	.....	.....	.....	can be recovered.
" 30.. 9.30..	.....	19.5	2.01	64.5	.....	.....	3.45	.....	
11.30..	1.15	21.5	.....	66.5	.....	.....	.....	.....	
4.30..	1.25	26.5	2.13	71.5	2.12	.....	.....	.....	
" 31..11.00..	1.46	45	2.61	90	2.65	.....	.....	.....	
12.00..	1.55	46	2.70	91	2.76	.....	.....	.....	
" 4.30..	1.60	50.5	2.87	95.5	2.87	.....	.....	.....	
June 1..10.30..	1.97	68.5	3.18	113.5	2.95	.....	.....	.....	
11.30..	.....	.....	.....	.....	.....	.....	2.52	.....	
1.30..	1.99	71.5	3.22	116.5	3.17	.....	2.65	.....	
4.30..	2.08	74.5	3.23	119.5	3.14	.....	2.85	.....	
" 2..11.00..	2.85	93	4.35	138	3.90	.....	5.87	.....	
4.30..	2.84	98.5	.....	.....	.....	.....	.....	.....	
" 3..10.00..	2.90	116	.....	.....	.....	.....	.....	.....	
12.00..	2.93	118	.....	.....	.....	.....	2.34	.....	
2.00..	3.01	120	2.17	0	.....	.....	2.39	.....	
5.00..	3.03	123	2.11	3	.....	.....	2.47	.....	
" 4.. 9.30..	3.11	139.5	2.01	19.5	.....	.....	2.63	.....	
11.00..	3.18	141.	2.01	21	2.85	.....	2.70	.....	
" 6.. 9.30..	5.80	187.5	2.70	67.5	4.88	.....	.....	.....	D pugged up tight.
1.30..	.70	0	3.05	71.5	.....	.....	2.57	0	
7.. 9.30..	.81	21	3.22	91.5	.....	.....	2.55	21	
12.00..	.77	23.5	3.33	94	.....	.....	2.54	23.5	
4.30..	.82	28	3.51	98.5	2.90	0	2.67	28	
" 8..10.30..	.82	46	4.57	116.5	2.75	18	3.47	46	
2.00..	.88	49.5	.....	.....	2.86	21.5	4.87	49.5	
4.00..	.92	51.5	.....	.....	2.97	23.5	4.38	51.5	
" 9..12.00..	1.37	71.5	.....	.....	2.43	43.5	.....	.....	
2.00..	1.46	73.5	.....	.....	3.45	45.5	.....	.....	
5.30..	1.49	77	.....	.....	3.56	49	.....	.....	
" 10..10.00..	1.65	93.5	2.10	0	3.71	65.5	.....	.....	
11.30..	1.73	95	2.09	1.5	4.06	67	.....	.....	
" 11.. 9.30..	2.15	117	1.95	23.5	4.90	89	.....	.....	
12.00..	2.35	119.5	1.95	26	.....	.....	.....	.....	
" 13..10.00..	3.09	164.5	2.00	72	.....	.....	2.04	0	
12.00..	3.31	166.5	2.10	74	.....	.....	2.25	2	
4.30..	3.87	171	2.27	78.5	3.07	0	2.47	6.5	
" 14..10.00..	3.90	188.5	2.52	96	3.27	17.5	3.27	24	
12.00..	3.98	190.5	2.59	98	3.34	19.5	3.35	26	
4.00..	.64	0	2.92	102	3.46	23.5	3.73	30	
" 15..10.00..	1.01	18	3.31	120	3.87	41.5	4.57	48	
2.00..	1.18	22	3.39	124	3.85	45.5	.....	.....	
5.00..	1.29	25	3.42	127	4.00	48.5	2.03	0	
" 16..10.00..	1.70	42	4.27	144	4.67	65.5	2.59	17	
12.00..	1.77	44	4.35	146	4.77	67.5	2.70	19	
4.00..	1.99	48	4.85	150	4.97	71.5	2.85	23	[a.m., June 17.
" 17..10.00..	2.67	66	6.25	168	.....	.....	.....	.....	B, C and D off at 11
4.00..	3.21	72	1.09	1	2.80	1	1.66	1	B, C and D start at 3 p.m.
" 18.. 9.30..	5.17	89.5	1.27	18.5	3.37	18.5	1.70	18.5	
12.30..	.....	.....	1.31	21.5	3.48	21.5	1.83	21.5	A stopped at 12 a.m.

EXPERIMENTAL STATION.

SAND FILTERS.—APPENDIX E.

LOSS OF HEAD AND HOURS RUN.

Date and hour	Tank A		Tank B		Tank C		Tank D		Remarks
	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	
1910.									
June 20..10.00..	.....	.....	2.73	67	5.97	67	5.17	67	
12.00..	.....	.....	3.11	69	.....	.....	.....	.....	
5.30..	.....	.....	4.10	74.5	.....	.....	.....	.....	[adding strip 5.00.
" 21.. 5.00..	.95	0	5.90	98	.....	.....	1.58	0	A and D start after
" 22..10.00..	.85	17	.....	.....	2.47	.....	1.81	17	C starts after strip
12.00..	.86	19	.....	.....	2.58	2	1.96	19	9.30.
4.00..	.95	23	1.73	0	2.71	6	2.20	23	B starts after adding
" 23..10.00..	.81	41	1.75	18	2.78	24	2.33	41	strip.
12.00..	.81	43	1.77	20	2.81	26	2.31	43	
4.30..	.69	47.5	1.77	24.5	2.86	30.5	2.32	47.5	
" 24..10.00..	.70	65	1.63	42	2.75	48	2.27	65	
11.30..	.65	66.5	1.52	43.5	2.73	49.5	2.28	66.5	
" 25.. 4.00..	.67	71	1.56	49	2.70	54	2.38	71	
10.00..	.59	89	1.73	66	3.27	72	3.20	89	
12.00..	.67	91	1.65	68	3.33	74	3.39	91	
" 27..10.00..	.55	137	2.85	114	5.1	120	5.8	137	
12.00..	.65	139	2.76	116	.....	.....	.....	.....	[p.m., June 27.
5.00..	.61	144	1.17	121	1.98	.....	1.43	3	D and C start at 2
" 28..10.00..	.74	161	1.40	138	2.50	20	2.00	20	
12.00..	.75	163	1.39	140	2.52	22	2.11	22	
4.00..	.82	167	1.60	144	2.82	26	2.40	26	
" 29..12.00..	.82	187	1.77	164	4.27	46	3.93	46	
4.00..	.97	191	1.87	168	4.72	50	4.23	50	
" 30..10.00..	1.03	209	2.25	186	6.27	68	5.55	68	
4.00..	1.05	213	2.47	192	.....	.....	.....	.....	
July 2..10.00..	1.05	257	3.80	234	.....	.....	.....	.....	
12.00..	1.04	259	3.82	236	.....	.....	.....	.....	
" 3..10.00..	1.19	281	5.00	258	2.05	0	1.46	0	
" 4..12.00..	1.30	307	5.37	284	2.11	26	1.63	26	
5.00..	.91	312	2.79	0	2.50	31	2.19	31	
" 5..12.00..	1.23	331	4.70	19	4.55	50	3.04	50	
4.30..	1.27	335.5	5.11	23.5	5.21	54.5	3.78	54.5	
" 6.. 9.30..	1.32	352.5	5.48	40.5	5.9	71.5	4.90	71.5	
12.00..	1.31	355	.....	43	.....	.....	.....	.....	
4.00..	1.35	359	2.43	47	2.65	0	2.10	0	
" 7..10.00..	1.20	377	2.30	65	2.71	18	2.18	18	
12.00..	1.41	379	2.29	67	2.80	20	2.27	20	
4.00..	1.49	283	2.48	71	3.07	24	2.58	24	
" 8..10.00..	1.46	401	2.65	89	3.13	42	2.25	42	
12.00..	1.44	403	2.69	91	3.70	44	3.57	44	
4.00..	1.48	407	2.61	95	4.00	48	4.00	48	
" 9..10.00..	1.61	425	4.20	113	5.17	66	4.9	66	
12.00..	1.56	427	.....	.....	.....	.....	.....	.....	
" 11..12.00..	1.60	475	1.97	0	.....	.....	.....	.....	Cleaned B at 9.30
4.00..	1.59	479	1.97	4	.....	.....	.....	.....	July 11th.
" 12..10.00..	1.52	497	2.19	22	.....	.....	.....	.....	
12.00..	1.44	499	2.30	24	2.88	0	2.82	0	
4.00..	1.23	503	2.30	28	3.10	4	3.04	4	
" 13..10.00..	1.07	521	2.04	46	4.18	22	3.85	22	
12.00..	1.09	523	2.21	48	4.23	24	4.07	24	[4 p.m., July 13th.
4.00..	1.14	527	2.38	52	4.88	28	4.58	28	C and D shut off at
" 14..10.00..	1.26	545	2.61	70	3.22	0	2.90	0	C & D started 10 a.m.
12.00..	1.29	547	2.64	73	3.78	2.30	3.68	2.30	Not cl'n'd, stood only
4.00..	1.25	551	3.11	76	4.11	6.34	4.8	6.34	C and D stopped at
" 15..10.00..	1.21	569	3.50	94	.....	.....	.....	.....	4 p.m., July 14th.
12.00..	1.50	571	3.69	96	2.92	0	2.61	0	
4.00..	1.52	575	3.75	100	3.03	4	2.68	4	
" 16..10.00..	1.36	593	4.00	118	3.41	22	3.32	22	
12.00..	1.65	595	4.16	120	3.42	24	3.29	24	

EXPERIMENTAL STATION.

SAND FILTERS.—APPENDIX E.

LOSS OF HEAD AND HOURS RUN.

Date and hour	Tank A		Tank B		Tank C		Tank D		Remarks
	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	
1910									
July 18.. 9.30..	1.88	640.5	.....	.....	.....	.....	.....	.....	B C and D cut out.
12.00..	1.83	643	.....	.....	.....	.....	.....	.....	A, 10 to 11.30, stopped to sterilize box,
5.00..	2.00	648	2.03	1	3.55	1	2.87	1	
" 19..10.00..	2.03	665	2.04	18	3.61	18	2.80	18	
12.00..	2.06	667	2.03	20	3.59	20	2.80	20	
4.00..	2.07	671	2.07	24	3.58	24	2.80	24	
" 20..10.00..	2.18	689	2.21	42	3.81	42	3.11	42	
12.00..	2.21	691	2.18	44	3.88	44	.....	.....	
5.00..	2.21	696	2.23	49	3.87	49	2.86	1	
" 21..10.00..	2.14	713	2.50	66	4.27	66	3.36	18	
12.00..	2.32	715	2.58	68	4.35	68	3.51	20	
4.00..	2.39	719	2.73	72	4.58	72	3.70	24	
" 22..10.00..	2.77	737	3.48	90	5.46	90	4.64	42	C and D cut out 10 a.m., July 22nd.
12.00..	2.91	739	3.64	92	.....	.....	.....	.....	
4.30..	3.08	743.5	3.95	96.5	3.74	.5	2.82	.5	
" 23..10.00..	3.53	761	4.67	114	4.08	18	2.99	18	
12.00..	3.62	763	4.75	116	4.17	20	3.04	20	[B C and D stopped.
" 25..10.00..	4.62	809	.....	.....	5.35	66	4.65	66	B lost all head. A
" 26..12.00..	.....	.....	.....	.....	3.50	2	2.92	2	D and C started 10
4.00..	1.36	0	2.22	0	3.72	6	3.13	6	p.m.
" 27..10.00..	1.32	18	2.28	18	4.32	24	3.28	24	
12.00..	1.33	20	2.32	20	4.48	26	3.27	26	
4.00..	1.33	24	2.34	24	4.91	30	3.32	30	
" 28..10.00..	1.29	42	2.34	42	5.38	48	3.37	48	
1.00..	1.26	45	2.34	45	.....	.....	3.34	59	
5.00..	1.24	49	2.30	49	.....	.....	3.31	55	
" 29..10.00..	1.20	66	2.35	66	.....	.....	3.24	72	
12.00..	1.20	68	2.38	68	.....	.....	3.25	74	
4.00..	1.20	72	2.44	72	4.27	0	3.27	78	
" 30..10.00..	1.20	90	2.66	90	4.43	18	3.16	96	
12.00..	1.17	92	2.81	92	4.50	20	3.23	98	
Aug. 2..10.00..	1.05	162	3.81	162	5.40	90	3.18	168	
12.00..	1.04	164	4.05	164	.....	.....	3.22	170	
4.30..	1.06	168.5	.....	.....	.....	.....	3.25	174.5	
" 3..10.00..	1.00	186	.....	.....	.....	.....	3.28	192	
12.00..	1.00	188	.....	.....	.....	.....	3.31	194	C and B start at 2 p.m
4.00..	.96	192	2.01	2	3.29	2	3.25	198	
" 4..10.00..	.86	210	1.85	20	3.12	20	3.04	216	
12.30..	.78	212.5	1.76	22.5	3.10	22.5	2.99	218.5	
4.00..	.72	216	1.79	26.5	3.02	26.5	2.93	222	
" 5..10.00..	91	234	1.98	44	3.54	44	2.36	240	
12.00..	.91	236	2.02	46	3.58	46	3.38	242	
4.00..	.94	240	2.03	50	3.69	50	3.44	246	
" 6..10.00..	1.05	258	2.17	68	4.01	68	3.79	264	
12.00..	1.00	260	2.15	70	4.00	70	3.82	266	
" 8..10.00..	1.05	306	2.36	92	4.78	.....	4.62	.....	
12.00..	1.04	308	2.35	94	.....	.....	.....	.....	
" 9..10.00..	1.06	330	2.52	116	.....	.....	.....	.....	
12.00..	1.10	332	2.58	118	.....	.....	.....	.....	
3.30..	1.16	335.5	2.77	121.5	4.10	3.5	3.13	3.5	
" 10..10.00..	1.04	354	2.67	140	3.77	22	3.07	22	
12.00..	1.03	356	2.67	142	3.81	24	3.00	24	
" 11..10.00..	1.15	378	3.20	164	3.99	46	3.15	46	
12.00..	1.15	380	3.36	166	4.04	48	3.24	48	
4.00..	1.17	384	3.41	170	4.10	52	3.33	52	
" 12..10.00..	1.12	402	3.54	188	4.10	70	3.54	70	
12.00..	1.23	404	4.08	190	4.32	72	3.90	72	
4.00..	.....	408	4.23	194	4.46	76	3.94	76	A fixing the overflow.
" 13..10.00..	.....	426	4.43	212	4.34	94	4.28	94	do do

EXPERIMENTAL STATION.

SAND FILTERS.—APPENDIX E.

LOSS OF HEAD AND HOURS RUN.

Date and hour	Tank A		Tank B		Tank C		Tank D		Remarks.
	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	
1910	Filter	s refill	ed and	all run	togeth	er at	same	rate.	A, B, C & D at 5M.. Gal. per acre per day.
Aug.....12.00..	1.36	428	4.71	214	4.88	96	4.43	96	
" 15.. 9.30..	1.09	473.5	5.	259.5	6.	141.5	.....	141.5	
12.00..	1.02	476	.....	.....	.....	.....	.....	.....	
4.00..	.94	480	.....	.....	.....	.....	.....	.....	
" 16..10.00..	.95	498	1.17	0	2.73	0	2.47	0	B, C and D being cleaned.
4.00..	.92	504	1.16	6	2.71	6	2.42	6	
" 17..10.00..	.81	522	1.64	24	3.98	24	2.52	24	
12.00..	.88	524	1.75	26	4.33	26	2.63	26	
4.00..	.91	528	2.14	30	5.	30	3.07	30	
" 18..10.00..	1.11	546	4.	48	.....	.....	6.	48	
12.00..	1.25	548	.....	.....	.....	.....	.....	.....	
4.00..	1.21	552	.....	.....	.....	.....	.....	.....	
" 19..10.00..	1.40	570	.....	.....	.....	.....	.....	.....	
12.00..	1.45	572	.....	.....	.....	.....	.....	.....	
5.00..	1.59	577	.....	.....	.....	.....	.....	.....	
" 20..10.00..	1.88	594	.....	.....	.....	.....	.....	.....	
" 22..10.00..	2.08	642	.....	.....	.....	.....	.....	.....	
4.00..	2.37	648	.....	.....	.....	.....	.....	.....	
" 23.. 4.00..	2.58	672	.....	.....	.....	.....	.....	.....	
" 30..12.00..	.72	0	1.04	0	.86	0	1.05	0	T=17°C.
5.00..	.81	5	1.26	5	.96	5	1.20	5	
" 31..12.00..	.95	24	1.36	24	1.07	24	1.38	24	T=18°C.
4.00..	.97	28	1.37	28	1.06	28	1.52	28	
Sep. 1..10.00..	1.05	46	1.50	46	1.19	46	1.69	46	T=16°.5C.
2.00..	1.16	50	1.55	50	1.24	50	1.75	50	
4.00..	1.23	52	2.10	52	1.33	52	1.95	52	T=16°C.
" 2..10.00..	1.30	70	2.16	70	1.98	70	2.10	70	T=16°.5C.
4.00..	1.40	76	2.30	76	2.11	71	2.34	76	
" 3..10.00..	1.27	94	2.30	94	1.86	94	2.23	94	T=17°.0C.
4.00..	1.35	100	2.37	100	1.91	100	2.34	100	
" 6.. 9.30..	2.21	165.5	3.99	165.5	2.99	165.5	3.01	165.5	T=17°.0C
12.00..	2.48	168	4.66	168	3.48	168	3.44	168	
4.00..	2.66	172	5.05	172	3.82	172	3.74	172	
" 7..10.00..	2.04	190	.....	.....	4.57	190	4.06	190	
12.00..	2.36	192	.....	.....	4.50	192	4.07	192	
4.00..	2.46	196	.....	.....	4.61	196	4.15	196	
" 8..10.00..	2.95	214	.95	.25	5.24	214	4.55	214	B started at 9.45 a.m.
12.00..	3.02	216	.96	2	.....	.....	4.52	216	
4.00..	3.10	220	.92	6	.50	0	4.53	220	17°.5C.
" 9..10.00..	3.45	238	.92	24	.50	18	4.37	238	
12.30..	3.50	240.5	.88	26.5	.50	20.5	4.41	240.5	17°.2C.
4.00..	3.64	244	.92	30.5	.50	24.5	4.50	244	
" 10.. 9.30..	4.03	261.5	.87	47.5	.54	41.5	4.86	261.5	
12.00..	4.22	264	.90	50	.55	44	.....	.....	16°.0C.
" 12..10.00..	4.73	310	.96	96	.56	90	.....	.....	17°.0C.
12.00..	.....	.....	1.01	98	.50	92	.....	.....	A started at 2.45 p.m.
4.00..	.62	1	1.02	102	.65	96	.85	1	
" 13..11.00..	.58	22	1.04	121	.70	115	.90	22	
4.30..	.59	27.5	1.09	126.5	.71	120.5	.87	27.5	
" 14..10.30..	.58	45.5	.84	144.5	.56	138.5	.89	45.5	
12.00..	.55	47	.98	146	.63	140	.89	47	
4.00..	.50	51	1.07	150	.71	144	.92	51	17°.C.
" 15..10.00..	.26	69	1.49	168	.99	162	1.00	69	
12.00..	.68	71	1.48	170	1.02	164	1.01	71	
4.00..	.70	75	1.50	174	1.00	168	1.02	75	
" 16..10.00..	.69	93	1.62	192	.91	186	.97	93	
12.00..	.70	95	1.71	194	.93	188	.99	95	

EXPERIMENTAL STATION.

SAND FILTERS.—APPENDIX E.

LOSS OF HEAD AND HOURS RUN.

Date and hour	Tank A		Tank B		Tank C		Tank D		Remarks.
	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	
1910									
4.30..	.71	99.5	1.76	198.5	.93	192.5	.99	99.5	
Sep. 17..10.00..	.67	117	1.97	216	.90	210	.93	117	
12.00..	.76	119	2.05	218	1.01	212	.94	119	
" 19..10.00..	.92	165	2.81	264	1.51	258	.91	165	
12.00..	1.02	167	3.01	266	1.65	260	1.01	167	
" 20..12.00..	1.40	191	4.02	290	2.42	284	1.54	191	
5.00..	1.48	196	4.01	295	2.65	289	1.70	196	
" 21..12.00..	1.54	215	4.42	314	2.91	308	1.78	215	
5.00..	1.61	220	4.27	319	2.80	313	1.83	220	
" 22.. 5.10..	2.02	244	.....	.....	3.56	337	2.68	244	B stopped Sep. 21,
" 23..10.00..	2.18	261	.....	.....	3.79	354	2.73	261	5 p.m.
12.00..	2.29	263	.60	0	4.03	356	3.18	263	
" 24..10.00..	2.27	285	.66	22	3.97	378	3.32	285	
12.00..	2.51	287	.69	24	4.35	380	3.65	287	
" 26..12.00..	4.22	335	1.86	72	.....	.....	.....	.....	
5.00..	4.37	340	1.84	77	.99	1	.....	.....	C started at 4 p.m.
" 27..12.00..	4.47	359	1.91	96	1.06	20	.....	.....	Started at 2 p.m. D
4.00..	4.53	363	1.92	100	1.05	24	.98	2	Sep. 27.
" 28..12.00..	4.49	383	1.80	120	1.04	44	1.16	22	
" 29..12.00..	4.71	407	1.90	144	1.05	68	1.12	46	
5.00..	4.75	412	1.94	149	.92	73	1.12	51	
" 30..12.00..	.....	.....	2.11	168	1.16	92	1.15	70	A stopped at 9.30 a.m.
5.00..	.99	0	2.19	173	1.15	97	1.20	75	A started at 5 p.m.
Oct. 1..12.00..	.86	19	2.30	192	1.13	116	1.25	94	
" 3..12.00..	1.16	65	.....	.....	1.94	164	1.40	142	
5.00..	1.15	72	1.11	0	1.84	169	1.30	147	
" 4..12.00..	1.04	91	1.08	19	1.67	188	1.20	166	
4.00..	1.09	95	.99	23	1.65	192	1.25	170	
" 5..12.00..	1.20	115	1.03	43	3.00	212	1.49	190	
" 6..12.00..	1.10	139	1.01	67	2.77	236	1.45	214	
" 7..12.00..	1.18	163	1.08	91	3.22	260	1.66	238	
4.00..	1.33	167	1.05	95	3.41	264	1.82	242	
" 8..12.00..	1.44	187	1.11	115	3.86	284	2.20	262	
" 10..12.00..	1.50	235	1.07	163	4.25	332	2.65	310	
" 11..12.00..	1.52	259	1.16	187	4.42	356	2.88	334	
3.30..	1.60	262.5	1.26	190.5	4.62	359.5	3.12	337.5	
" 12..12.00..	1.69	283	1.35	211	5.07	380	3.30	358	
5.00..	1.82	288	1.41	216	2.05	0	3.57	363	C rate changed to 10
" 13..15.00..	1.93	307	1.48	235	1.90	19	3.82	382	million gals.
5.00..	2.09	312	1.55	240	1.87	24	4.21	387	
" 14..12.00..	2.15	331	1.52	259	1.70	43	.....	.....	D stopped.
" 15..12.00..	2.34	355	1.56	283	1.65	67	2.65	0	
" 17..12.00..	2.98	403	1.96	331	1.78	115	2.56	48	
5.30..	3.13	408.5	2.04	336.5	1.89	120.5	2.55	53.5	
" 18..12.00..	3.36	427	2.25	355	2.17	139	2.72	72	
5.00..	3.36	432	2.26	360	2.16	144	2.55	77	
" 19.. 5.00..	3.32	456	2.28	384	2.32	168	2.83	101	
" 20..10.00..	3.41	473	2.33	401	2.60	185	2.89	118	
" 21..10.00..	4.40	497	2.83	425	3.18	209	.....	.....	D stopped entirely by
" 22	.....	.....	.....	.....	.....	.....	.....	.....	surface clogging,
" 24..10.00..	1.82	0	.....	.....	.....	.....	.....	.....	all plugged tight.
4.00..	1.78	6	2.31	0	2.35	0	2.92	0	
" 25.. 5.00..	1.73	31	2.17	26	2.36	26	3.18	26	
" 26..10.00..	1.76	48	2.23	43	2.48	43	3.88	43	
5.00..	1.82	52	2.23	50	2.68	50	3.47	50	
" 27..12.00..	2.35	71	2.25	69	3.14	69	5.52	69	
5.30..	2.72	76.5	2.47	74.5	3.59	74.5	.....	.....	
" 28.. 5.00..	3.81	95	3.27	98	5.24	98	2.78	1	D started at 4.15 p.m.
" 29..12.00..	5.14	114	4.36	117	.....	.....	2.67	20	

EXPERIMENTAL STATION.

Sand Filters.—Appendix E.

Loss of Head and Hours Run.

Date and hour	Tank A		Tank B		Tank C		Dank D		Remarks.
	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	Total loss of head	Hours run	
1910.									
Nov. 1..10.00..	2.45	0	2.81	0	2.18	0	2.66	90	
5.00..	4.10	7	4.81	7	3.55	7	2.83	97	
" 2..12.00..	low	26	stop'd	26	4.98	26	3.30	116	
3.30..	.....	.....	.....	.....	4.37	29.5	3.05	119.5	
" 4..12.00..	2.27	0	1.79	0	2.82	74	plug'd	.....	
3.00..	2.26	3	1.82	3	2.88	77	3.51	0	D started at 3 p.m.,
" 5..10.30..	3.38	22.5	.23	22.5	4.32	96.5	4.18	19	Nov. 4th. T=7°.2c.
" 7..	.....	.....	.....	.....	.....	.....	.....	.....	All filters plugged
" 8..11.30..	.....	.....	2.46	1.5	3.01	1.5	3.30	1.5	tightly.
4.30..	2.34	.5	2.30	6.5	2.90	6.5	3.13	6.5	
" 9..10.00..	2.38	18	2.78	24	2.90	24	3.57	24	
5.00..	2.71	25.0	3.05	31	3.28	31	3.95	31	
" 10..10.00..	3.37	42	4.35	48	4.31	48	5.20	48	
4.00..	3.93	48	4.80	54	4.85	54	5.63	54	
" 11..12.00	5.63	68	.....	.....	.....	.....	.....	.....	
5.00..	.....	.....	.....	.....	4.10	0	1.28	0	3 mill. rate D, 5 p.m.
" 12..12.00..	.77	0	.97	0	4.96	19	1.13	19	
" 14..10.00..	.66	46	.80	46	1.90	65	.83	65	C rate changed to 3
5.00..	.66	53	.79	53	3.52	72	.95	72	million gals.
" 15..11.00..	.65	71	.75	71	4.62	90	1.05	90	
" 16..12.00..	.65	97	.71	97	.....	.....	.93	116	
" 17..12.00..	.55	121	.67	121	1.20	0	.93	140	
4.30..	.62	125.5	.61	125.5	1.04	.....	.91	144.5	
" 18..11.30..	.56	144.5	.59	144.5	.98	23.5	.94	163.5	
" 19..11.00..	.61	168	.64	168	.72	47	.98	187	6°. C.
" 21..12.00..	.73	217	.80	217	.71	96	1.23	236	
4.30..	.76	221.5	.74	221.5	.82	100.5	1.29	240.5	
" 22..12.00..	.86	241	.92	241	.71	120	1.60	260	
" 23.. 4.00..	1.01	269	.97	269	.70	148	1.69	288	
" 24.. 2.00..	1.13	291	1.07	291	.73	170	1.92	310	
4.30..	1.15	293.5	1.06	293.5	.73	172.5	1.98	312.5	
" 25..10.30..	1.25	311.5	1.16	311.5	.79	190.5	2.16	330.5	
4.00..	1.27	317	1.17	317	.75	196	2.19	336	
" 26.. 1.00..	1.44	338	1.28	338	.88	217	2.60	357	
" 28..10.00..	1.62	383	1.41	383	1.00	2.62	3.07	402	
" 29..10.00..	2.94	407	2.17	407	.74	286	7.21	426	
Filters all shut off during repairs to water main outside 4 hours.									
Dec. 1.. 5.00..	4.99	432	4.34	432	2.90	311	.....	451	T=5°. 5C.
" 2..	.....	.....	.....	.....	3.66	335	.....	.....	A started at 4 p.m. D
" 3..12.30..	.73	.....	.....	.....	3.92	354.5	.....	.....	at 2.30 p.m. B start-
" 5..10.00..	.61	.....	.87	.....	4.41	400.5	.97	.....	ed at 12.30 a.m.
4.00..	.67	.....	.88	.....	.....	.....	.92	.....	
" 6.. 9.45..	.70	.....	.80	.....	.98	.....	.99	.....	T=3°. C.
" 7.. 4.00..	.88	.....	.87	.....	1.38	.....	.87	.....	
" 8.. 3.30..	1.25	.....	1.01	.....	1.46	.....	1.26	.....	T=3°. 3C.
" 9.. 4.30..	1.28	.....	1.09	.....	1.51	.....	1.49	.....	3°. 5C.
" 10..11.30..	1.46	.....	1.19	.....	1.54	.....	1.66	.....	
Filters all shut down 3 p.m. till 9.30 a.m. Dec. 14th. (Intake raised, sand at mouth.)									
" 14.. 3.00..	3.38	.....	4.05	.....	1.12	.....	2.90	.....	T=2°.5C.
" 15..	.....	.....	.....	.....	.....	.....	.....	.....	A & B start at 3 p.m.
" 16.. 5.00..	.88	.....	1.08	.....	1.02	.....	4.63	.....	T=3°. 0C.
" 19.. 3.00..	.84	.....	.87	.....	.83	.....	1.12	.....	T=3°.2C. D cleaned
									Dec. 17, a.m.
" 22.. 3.45..	.79	.....	.79	.....	.73	.....	.95	.....	T=3°.5C.
" 27.. 3.45..	1.23	.....	1.10	.....	.87	.....	1.05	.....	T=3°.0C.
" 30.. 4.30..	1.34	.....	1.29	.....	1.02	.....	1.27	.....	T=3°.0C.
1911.									
Jan. 3.. 5.00..	1.55	.....	1.36	.....	1.10	.....	1.64	.....	

APPENDIX F.

EXPERIMENTAL STATION.

Sand Filters.—Appendix F.

Resistance Loss of Head (in feet) for 1 Foot of Sand.

Date.	Tank A		Tank B		Length of run in hours	Tank C		Tank D		Turbidity.
	1st foot x.	2nd foot y.	1st foot x.	2nd foot y		x	y	x	y	
1910	rate 5 million									
May 4 1 p.m.	.3	.4	.....	.....	½	.....	.....	.....	.....	
	.25	.37	.....	.....	3	.....	.....	.....	.....	
May 5	.25	.35	.....	.....	21	.....	.....	.....	.....	
	.21	.36	.....	.....	24	.....	.....	rate 12 m		
	.17	.39	.....	.....	27	.....	.....	.90	1.08	
	.17	.40	.....	.....	29	.....	.....	.87	1.0	
May 6	.18	.32	.....	.....	45½	.....	.....	.85	.78	
	.17	.22	rate 10 m.		46	rate 15 m.		.80	.73	
	.22	.25	.79	.49	51	1.02	.98	.71	.68	
	.18	.28	.80	.46	52	1.04	.93	.69	.67	
May 7	.12	.22	.81	.33	70	1.09	.79	.49	.62	
	.16	.24	.82	.43	71½	1.11	.74	.47	.60	
May 9	.12	.16	.67	.25	117	.54	.61	.35	.75	
	.11	.18	.63	.22	121	.53	.69	.....	.....	
	.04	.23	.62	.22	123⅓	.52	.67	.....	.....	
May 10	.10	.17	.50	.24	141½	.....	.....	.....	.....	
	.08	.21	.50	.22	143⅓	.....	.....	.....	.....	
	.08	.18	.48	.22	147½	rate 5 m		rate 12 m		
May 11	.05	.19	.42	.24	166	.37	.....	.77	.....	
	.07	.16	.41	.24	168	.37	.....	.75	.....	
	.07	.15	.40	.23	172	.36	.....	.75	.....	
May 12	.07	.17	.38	.24	189½	.35	.....	.82	.....	
	.09	.16	.39	.24	192	.33	.....	.78	.....	
	.09	.16	.42	.25	196⅓	.33	.....	.71	.....	
May 13	.08	.16	.....	.....	214½	.46	.....	.47	.....	
	.....	.....	rate 10 m		216	.30	.....	.45	.....	
	.10	.14	.85	.50	220	.29	.....	.42	.....	
May 14	.10	.13	.81	.43	237½	.23	.....	.38	.....	
	.09	.13	.81	.42	240	.22	.....	.39	.....	
May 16	.08	.15	.55	.22	286½	.15	.....	.....	.....	
	.10	.11	.52	.20	288	.15	.....	.....	.....	
	.09	.14	.49	.20	292½	.16	.....	.88	.....	
May 17	.11	.45	.38	.19	310	.16	.....	.80	.....	
	.11	.20	.37	.18	311½	.17	.....	.82	.....	
	.21	.07	.38	.20	316½	.16	.....	.80	.....	All out after a
	.....	.....	.30	.70	333½	.15	.....	.80	.....	storm from S.W.

EXPERIMENTAL STATION.

Sand Filters.—Appendix F.

Resistance Loss of Head (in feet) for 1 Foot of Sand.

Date.	Tank A			Tank B			Tank C			Tank D			Remarks.
	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	
1910													
May 21..	.62	.01	4.0	1.28	.83	3.19	....	.94	3.39	....	.90	3.43	
May 23..	.59	.89	3.60	1.10	.76	2.95	....	....	....	....	....	.....	
	....	....	.....	.92	.80	2.75	....	.30	2.99	....	.5	3.37	
	....	....	.....	.77	.57	2.52	....	....	.....	....	....	.....	
May 25..	.30	.27	2.40	....	.6	.47	....	....	.....	....	....	.....	
	.30	.28	2.28	....	....	.....	....	....	.....	....	....	.....	
	.37	.32	2.12	....	....	.....	....	....	.....	....	....	.....	
May 26..	.20	.30	1.30	....	....	.....	....	1.02	3.67	....	.50	4.31	
	....	....	.....	....	....	.....	....	1.06	3.43	....	.52	4.37	
	....	....	.....	....	....	.....	....	1.05	3.77	....	.51	4.27	
May 27..	....	....	.....	....	....	.....	....	1.08	3.69	....	.50	4.19	
	....	....	.....	....	....	.....	....	1.10	3.47	....	.48	4.04	
	....	....	.....	.5	.88	3.97	....	1.08	3.22	....	.50	3.96	
May 28..	.41	.37	4.15	.12	1.49	3.08	....	1.02	2.19	....	.46	3.41	
	....	....	.....	.52	.86	4.05	....	....	3.08	....	.45	3.30	
May 30..	.28	.32	3.83	.31	.72	3.98	....	....	.....	....	.37	1.76	} Incorrect, C resting
	.32	.29	4.18	.26	.67	3.83	....	.37	3.36	...	....	.....	Start after rest
May 31..	.30	.20	3.50	.30	.55	3.14	....	.36	2.83	....	....	.....	
	.27	.23	3.85	.30	.54	3.09	....	.34	2.67	....	....	.....	
	.25	.20	3.77	.30	.50	2.87	....	.33	2.57	....	....	.....	
June 1..	.35	.16	3.34	.28	.44	2.29	....	.32	2.37	....	.90	3.87	
	.30	.13	3.25	.30	.43	2.39	....	.34	2.23	....	.93	3.72	
	.21	.19	3.25	.30	.44	2.27	....	.29	2.15	....	.90	3.47	
June 2..	.19	.17	2.49	.38	.24	.99	....	.23	1.3	....	....	.....	
	.18	.15	2.42	....	....	.....	....	....	.....	....	....	.....	
June 3..	.16	.15	2.27	....	....	.....	....	....	.....	....	....	.....	
	.14	.18	2.20	....	....	.....	....	....	.....	....	.90	3.71	
	.17	.13	2.13	.51	.88	4.05	....	....	.....	....	.92	3.92	
	1.5	.14	2.22	....	.85	4.07	....	....	.....	....	.88	3.87	
June 4..	.13	.16	2.10	....	.87	4.17	....	....	.....	....	.77	3.58	
	.16	.13	2.02	....	.85	4.17	....	.10	3.59	....	.76	3.49	
June 6..	....	....	.....	.17	.51	2.97	....	.40	1.17	....	....	.....	
	.26	.13	4.52	.23	.39	2.54	....	....	.....	....	....	.....	
	....	....	.....	.25	.37	2.37	....	....	.....	....	.84	3.77	
June 7..	.27	.14	4.42	.24	.34	2.12	....	....	.....	....	.80	3.69	
	.27	.15	4.40	.22	.33	2.07	....	....	.....	....	.78	3.65	
	.24	.14	4.39	.25	.30	1.87	....	1.10	3.73	....	.77	3.54	
June 8..	.21	.13	4.32	....	.30	.77	....	1.06	3.82	....	.56	2.45	
	.20	.16	4.28	....	....	.....	....	1.03	3.73	....	.49	1.98	
	.21	.14	4.29	....	....	.....	....	.92	3.49	....	.45	1.37	
June 9..	.16	.12	3.78	....	....	.....	....	.65	2.73	....	....	.....	
	.18	.12	3.73	....	....	.....	....	.65	2.72	....	....	.....	
	.16	.14	3.69	....	....	.....	....	.64	2.62	....	....	.....	
June 10..	.17	.13	3.51	....	.85	3.92	....	.53	2.24	....	....	.....	
	.18	.11	3.40	....	.81	4.01	....	.47	1.79	....	....	.....	
June 11..	.23	.14	3.05	.40	.77	4.07	....	....	.....	....	....	.....	
	.15	.11	2.81	.40	.74	4.03	....	....	.....	....	....	.....	
June 13..	.12	.12	2.10	.30	.43	3.56	....	....	.....	....	.73	3.86	
	.14	.12	1.86	.30	.38	3.42	....	....	.....	....	.74	3.90	
	.13	.13	1.37	.27	.38	3.20	....	1.13	3.70	....	.82	3.69	
June *14..	.15	.15	1.31	.30	.32	2.89	....	1.18	3.57	....	.76	2.89	
	.16	.14	1.23	.32	.34	2.85	....	1.24	3.55	....	.75	2.73	
	....	.17	4.66	.34	.35	2.53	....	1.22	3.35	....	.70	2.33	
June 15..	.24	.18	4.26	.29	1.33	3.08	....	1.10	2.97	....	.70	1.42	
	.23	.20	4.10	.25	.37	2.04	....	1.20	3.07	....	....	.....	
	.21	.19	3.99	.26	.36	1.87	....	1.20	2.95	....	.77	4.17	
June 16..	.24	.16	3.56	.24	.36	1.13	....	1.15	2.32	....	.66	3.37	
	.24	1.18	3.52	.28	.35	1.02	....	1.20	2.22	....	.60	3.21	
	.21	.19	3.39	....	.40	.61	....	1.20	1.97	....	.53	2.37	

EXPERIMENTAL STATION.

SAND FILTERS.—APPENDIX F.

RESISTANCE LOSS OF HEAD (IN FEET) FOR 1 FOOT OF SAND.

Date	Tank A			Tank B			Tank C			Tank D			Remarks
	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	
1910													
June 17..	.26	.17	2.60	....	....	.....	....	....	.....	....	....	.....	
	.35	.14	2.02	....	.34	4.29	....	1.16	4.13	....	.62	4.19	
June 18..	....	....	.....	.38	.32	4.09	....	1.10	3.66	....	.47	3.91	
	....	....	.....	.37	.32	4.05	....	1.06	3.49	....	.47	3.80	
June 20..	....	....	.....	.29	.21	2.47	....	....	.....	....	....	.....	
	....	....	.....	.42	.27	2.16	....	....	.....	....	....	.....	
	....	....	.....	.40	.29	1.11	....	....	.....	....	....	.....	
	....	.25	4.50	....	....	.....	....	....	.....	....	.58	4.19	Start after putting on strip
June 22..	.28	.24	4.54	....	....	.....	....	.93	4.09	....	.57	4.09	
	.28	.22	4.52	....	....	.....	....	.98	4.13	....	.57	3.96	
	.28	.22	4.42	....	.71	4.27	....	1.00	3.96	....	.57	3.78	
June 23..	....	.25	4.59	....	.80	4.37	....	1.06	3.79	....	.57	3.68	
	....	.26	4.60	....	.79	4.37	....	1.09	4.06	....	.58	3.69	
	....	.23	4.59	....	.88	4.39	....	.86	4.03	....	.60	2.72	
June 24..	....	.22	4.70	.31	.71	4.36	....	.99	3.94	....	.50	3.52	
	....	.22	4.70	.31	.69	4.36	....	.94	3.90	....	.47	3.49	
	....	.21	4.69	.30	.62	4.31	....	.92	3.87	....	.45	3.22	
June 25..	....	.19	4.64	.26	.62	4.11	....	.86	8.41	....	.47	2.56	
	....	.22	4.64	.27	.59	4.06	....	.84	3.31	....	.45	2.41	
June 27..	....	.17	4.69	.12	.38	2.66	....	....	.....	....	....	.....	
	....	.15	4.60	.15	.40	2.77	....	....	.....	....	....	.....	
	....	.15	4.65	....	.40	4.37	....	.51	4.04	....	.38	4.05	
June 28..	.24	.14	4.50	.39	.40	4.17	....	.50	3.57	....	.42	3.63	
	.23	.15	4.49	.39	.41	4.13	....	.50	3.52	....	.41	3.47	
	.23	.15	4.40	.66	.35	3.88	....	.50	2.98	....	.41	3.09	
June 29..	.21	.14	4.00	....	.38	3.66	....	....	.....	....	....	.....	
	.23	.14	4.26	....	.37	3.54	....	....	.....	....	....	.....	
June 30..	.21	.11	4.11	....	.35	3.13	....	....	.....	....	....	.....	
	.20	.12	4.12	....	.30	2.87	....	....	.....	....	....	.....	
July 2..	.20	.17	4.13	....	.47	1.73	....	....	.....	....	....	.....	
	.20	.16	4.13	....	.46	1.70	....	....	.....	....	....	.....	
July 3..	.21	.13	4.01	....	....	.....	....	.55	3.44	....	.41	3.77	
July 4..	.18	.13	3.62	....	....	.....	....	.54	3.19	....	.44	3.97	
	.20	.14	4.30	....	....	.....	....	.60	3.27	....	.47	3.34	
July 5..	.20	.13	3.96	....	....	.....	....	....	.....	....	.43	2.17	
	.18	.11	3.93	....	....	.....	....	....	.....	....	....	.....	
July 6..	.20	.10	3.85	....	....	.....	....	....	.....	....	....	.....	
	.17	.11	3.87	....	....	.....	....	....	.....	....	....	.....	
	.17	.10	3.82	....	.90	3.73	....	.79	3.44	....	.63	3.76	
July 7..	.17	.11	3.77	....	.80	3.62	....	.80	3.33	....	.60	3.61	
	.17	.10	3.75	....	.82	3.74	....	.80	3.22	....	.59	3.52	
	.17	.12	3.68	....	.79	3.51	....	.78	2.94	....	.58	3.15	
July 8..	.16	.10	3.63	....	.73	3.27	....	.79	1.97	....	.48	2.37	
	.16	.10	3.54	....	.76	3.17	....	.83	2.34	....	.54	1.94	
	.13	.12	3.62	....	.70	2.16	....	.80	2.04	....	.50	1.69	
July 9..	.20	.11	3.00	....	....	.....	....	....	.....	....	....	.....	
	.34	.11	3.61	....	....	.....	....	....	.....	....	....	.....	
July 11..	.17	.12	3.57	....	.75	4.04	....	....	.....	....	....	.....	
	.14	.12	3.42	....	.79	4.02	....	....	.....	....	....	.....	
	.17	.14	3.61	....	.81	3.74	....	....	.....	....	....	.....	
July 12..	.16	.13	3.69	....	.81	3.60	....	.97	3.19	....	.90	3.52	
	.17	.13	3.89	....	.75	3.55	....	.96	3.02	....	.96	3.27	
	.16	.10	4.02	....	.72	3.73	....	....	.....	....	1.00	2.42	
July 13..	.15	.18	4.02	....	.70	3.63	....	....	.....	....	....	.....	
	.17	.11	3.96	....	.74	3.43	....	....	.....	....	....	.....	
	.15	.14	3.87	....	.70	3.15	....	.98	2.65	....	.92	3.02	
July 14	.16	.13	3.84	....	.71	3.12	....	1.05	2.47	....	.96	2.51	
	.12	.12	4.02	....	.79	2.76	....	1.00	2.23	....	....	.....	
	.15	.10	3.95	....	.69	2.25	....	....	.....	....	....	.....	

EXPERIMENTAL STATION.

SAND FILTERS.—APPENDIX F.

RESISTANCE LOSS OF HEAD (IN FEET) FOR 1 FOOT OF SAND.

Date,	Tank A			Tank B			Tank C			Tank D			Remarks
	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	
1910													
July 15..	.17	.13	3.64	....	.78	2.12	....	1.16	3.48	....	.97	3.74	
	.18	.12	3.70	....	.69	2.08	....	1.20	3.39	....	1.01	3.64	
	.16	.14	3.58	....	.....	.....	....	1.30	3.08	....	1.17	3.07	
July 16..	.15	.14	3.56	....	....	.....	....	1.29	3.02	....	1.15	2.97	
	.13	.11	3.29	....	....	.....	....	....	.....	....	....	.....	
July 18..	.18	.11	3.39	....	....	.....	....	....	.....	....	....	.....	
	.15	.11	3.16	....	.83	3.95	....	1.32	3.40	....	1.06	3.61	
July 19..	.15	.11	3.09	....	.84	3.96	....	1.48	3.63	....	1.07	3.60	
	.13	.12	3.07	....	.85	3.97	....	1.48	3.63	....	1.04	3.56	
	.14	.10	3.14	....	.81	3.86	....	1.39	3.39	....	1.00	3.61	
July 20..	.15	.10	2.95	....	.78	3.70	....	1.19	3.20	....	.95	3.29	
	.14	.11	2.93	....	.78	3.69	....	1.16	3.14	....	....	3.2	
	.15	.11	2.78	....	.74	3.09	....	....	.....	....	.87	3.29	
July 21..	.14	.10	2.91	....	.66	3.25	....	....	.....	....	.81	2.71	
	.13	.11	2.86	....	.66	3.18	....	....	.....	....	.81	2.54	
	.14	.12	2.78	....	.63	2.99	....	....	.....	....	.82	2.54	
July 22..	.15	.12	2.40	....	.65	2.25	....	....	.....	....	....	.....	
	.16	.13	2.27	....	.69	2.13	....	....	.....	....	....	.....	
	.15	.12	2.11	....	....	.....	....	1.44	3.47	....	1.08	3.69	
July 23..	.16	.12	1.65	....	....	.....	....	....	.....	....	1.13	3.56	
	.16	.13	1.56	....	....	.....	....	....	.....	....	....	.....	
July 26..	....	....	.....	....	....	.....	....	1.35	1.64	....	1.10	3.62	
	.49	.32	4.34	....	.90	3.90	....	1.46	3.52	....	1.17	3.48	
July 27..	.45	.31	4.31	....	.93	3.91	....	....	.....	....	1.16	3.36	
	.44	.35	4.33	....	.94	3.92	....	....	.....	....	1.18	3.40	
	.45	.32	4.27	....	.92	3.95	....	....	.....	....	1.20	3.29	
July 28..	.41	.27	4.27	....	.94	3.86	....	....	.....	....	1.33	3.35	
	.41	.27	4.34	....	.94	3.88	....	....	.....	....	1.37	3.41	
	.37	.29	4.38	....	.92	3.89	....	....	.....	....	1.36	3.55	
July 29..	.34	.25	4.34	....	.95	3.76	....	....	.....	....	1.39	3.62	
	.34	.24	4.33	....	.90	3.77	....	....	.....	....	1.38	3.63	
	.33	.24	4.32	....	.90	3.68	....	....	.....	....	1.41	3.64	
July 30..	.30	.22	4.28	....	.89	3.38	....	....	.....	....	1.37	3.69	
	.28	.20	4.27	....	.86	3.40	....	....	.....	....	1.36	3.60	
Aug. 2..	.17	.11	4.23	....	.52	1.87	....	....	.....	....	1.34	3.69	
	.18	.14	4.14	....	....	.....	....	....	.....	....	1.34	3.66	
	.18	.16	4.28	....	....	.....	....	....	.....	....	1.30	3.59	
Aug. 3..	.20	.11	4.30	....	....	.....	....	....	.....	....	1.34	2.21	
	.16	.12	4.25	....	....	.....	....	....	.....	....	1.15	3.41	
	.16	.12	4.21	....	.84	4.06	....	1.31	3.77	....	1.10	3.30	
Aug. 4..	.14	.11	4.28	....	.80	4.11	....	1.40	4.01	....	.96	3.35	
	.18	.10	4.42	....	.81	4.15	....	1.36	4.03	....	.86	3.18	
	.16	.11	4.43	....	.80	4.21	....	1.29	3.99	....	.87	3.34	
	.15	.12	4.27	....	.87	4.12	....	1.43	3.82	....	.93	2.98	
Aug. 5..	.17	.12	4.24	....	.84	4.07	....	1.40	3.75	....	.91	2.85	
	.18	.08	4.21	....	.82	3.98	....	1.38	3.84	....	.87	2.90	
Aug. 6..	.15	.10	4.16	....	.80	3.64	....	1.28	3.48	....	.87	2.54	
	.18	.10	4.15	....	.79	3.85	....	....	.....	....	.84	2.48	
Aug. 8..	.14	.10	4.08	....	.62	3.41	....	....	.....	....	....	.....	
	.14	.08	4.07	....	.61	3.36	....	....	.....	....	....	.....	
Aug. 9..	.13	.08	4.07	....	.52	3.11	....	....	.....	....	....	.....	
	.15	.09	3.89	....	.48	2.99	....	....	.....	....	....	.....	
	.14	.10	3.98	....	.52	2.87	....	1.55	3.47	....	1.22	3 67	
Aug. 10..	.13	.10	4.07	....	.45	2.84	....	1.87	4.18	....	1.24	3 87	
	.13	.10	4.07	....	.44	2.83	....	1.92	4.21	....	1.25	3.86	
	.14	.09	4.02	....	.43	2.73	....	1.86	4.18	....	1.19	3.72	
Aug. 11..	.13	.10	3.95	....	.38	2.20	....	....	.....	....	1.21	3.55	
	.14	.09	3.93	....	.38	2.01	....	....	.....	....	1.22	3.43	
	.14	.06	3.82	....	.38	1.97	....	....	.....	....	1.20	3.30	

EXPERIMENTAL STATION.

SAND FILTERS.—APPENDIX F.

RESISTANCE LOSS OF HEAD (IN FEET) FOR 1 FOOT OF SAND.

Date.	Tank A			Tank B			Tank C			Tank D			Remarks.
	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	
1910													
Aug. 12..	.03	.19	4.07	....	.34	1.77	....	....	.....	....	1.21	3 07	
	.11	.09	3.89	....	....	.....	....	....	.....	....	....	.....	
Aug. 13..	.49	.30	4.01	....	....	.....	....	....	.....	....	....	.....	Stopped to fix overflow for 24 hours.
Aug. 15..	.34	.21	4.13	....	....	.....	....	....	.....	....	....	.....	
	.33	.20	4.16	....	....	.....	....	....	.....	....	....	.....	
	.31	.17	4.27	....	....	.....	....	....	.....	....	....	.....	
Aug. 16..	.28	.17	4.29	....	....	.....	....	....	.....	....	....	.....	
	.26	.16	4.30	.69	.32	4.07	....	1.00	4.14	....	1.03	3.87	
	.28	.14	4.02	....	.33	4.05	....	.76	3.23	....	1.00	3.62	
Aug. 17..	.20	.14	4 38	....	.28	3.49	....	.40	2.64	....	.65	3.32	Not reliable.
	.19	.14	4.14	....	.26	3.33	....	....	.....	....	.63	3.16	
	.17	.10	4.22	....	.26	2.77	....	....	.....	....	.54	2.63	
Aug. 18..	.15	.08	3.92	....	....	.....	....	....	.....	....	....	.....	
	.12	.10	3.89	....	....	.....	....	....	.....	....	....	.....	
	.10	.10	3 86	....	....	.....	....	....	.....	....	....	.....	
Aug. 19...	.12	.08	3.64										
	.13	.08	3.59										
	.11	.07	3.40										
Aug. 20..	.10	.09	3.27	....	....	.....	....	....	.....	....	....	.....	Sands all alike
Aug. 22..	.09	.06	3.22										Lake-washed sand.
	.10	.07	2.94										
Aug. 23..	.10	.06	2.36										
Aug. 30..	.14	.14	4.56	.15	.26	4.24	.15	.25	4.42	.17	.23	4.22	
	.15	.15	4.42	.19	.25	3.98	.17	.24	4.24	.22	.31	3.99	
Aug. 31..	.12	.17	4.27	.16	.21	3.80	.15	.20	4.07	.20	.20	3.73	
	.12	.15	4.25	.13	.21	3.77	.15	.23	4.12	.22	.22	3.66	
Sept. 1* ..	.10	.15	4.14	.14	.19	3.65	.18	.21	3.98	.19	.21	3.47	
	.11	.14	4.08	.16	.20	3.49	.14	.21	3.93	.20	.21	3.38	
	.10	.15	3.97	.19	.20	3.07	.17	.18	3.79	.20	.19	3.18	
Sept. 2..	.10	.15	3.75	....	.17	2.99	.15	.20	3.27	.19	.20	3.07	
	.11	.13	3.85	.13	.15	2.80	.13	.19	3.13	.16	.18	2.83	
Sept. 3..	.13	.10	3.94	.10	.16	2.77	.13	.18	3.19	.16	.18	2.87	
Sept. 4..	.15	.09	3.89	.10	.13	2.62	.11	.16	3.11	.16	.15	2.76	
Sept. 6..	.10	.14	2.92	....	.13	1.14	.11	.14	1.96	.13	.16	2.14	
	.09	.12	2.69	....	....	.....	.10	.13	1.58	.13	.16	1.70	
	.10	.13	2.48	....	....	.....	.09	.13	1.23	.18	.15	1.34	
Sept. 7..	.08	.09	3.17	....	....	.....	....	....	.....	....	....	.....	
	.07	.09	2.82	....	....	.....	....	....	.....	....	....	.....	
	.09	.09	2.60	....	....	.....	....	....	.....	....	....	.....	
Sept. 8..	.10	.10	2.14	....	.36	4.52	....	....	.....	....	....	.....	
	.10	.11	2.11	.20	.36	4.17	....	....	.....	....	....	.....	
	.09	.10	2.00	.22	.32	4.52	.10	.12	4.52	....	....	.....	
Sept. 9..	.10	.10	1.69	.23	.31	4.49	.13	.13	4.52	....	....	.....	
	.11	.09	1.62	.19	.31	4.48	.11	.15	4.54	....	....	.....	
	.09	.10	1.49	.18	.31	4.47	.12	.13	4.52	....	....	.....	
Sept. 10..	....	....	.....	.19	.26	4.32	.08	.13	4.39	....	....	.....	
	....	....	.....	.17	.29	4.45	.10	.17	4.55	....	....	.....	
Sept. 12..	....	....	.....	.12	.22	4.29	.12	.13	4.40	....	....	.....	
	....	....	.....	.11	.22	4.26	.11	.14	4.47	....	....	.....	
Sept. 13..	.22	.16	4.50	.11	.19	4.17	.09	.13	4.52	.26	.26	4.26	
	.23	.16	4.57	.10	.18	4.07	.12	.11	4.32	.27	.23	4.27	
	.20	.14	4.52	.13	.13	3.98	.10	.16	4.33	.20	.24	4.27	
Sept. 14..	.19	.13	4.23	.11	.16	4.28	.11	.13	4.44	.22	.26	4.34	
	.20	.17	4.68	.12	.13	4.10	.12	.12	4.34	.21	.25	4.26	
	.23	.13	4.62	.12	.12	3.89	.09	.15	4.27	.19	.23	4.21	
Sept. 15..	.16	.14	4.53	.11	.12	3.53	.12	.15	4.10	.17	.23	4.12	
	.14	.14	4.53	.11	.11	3.53	.11	.16	4.07	.19	.21	4.12	
	.14	.14	4.52	.09	.11	3.52	.11	.15	4.06	.16	.21	4.12	

EXPERIMENTAL STATION.

Sand Filters.—Appendix F.

Resistance Loss of Head (in feet) for 1 Foot of Sand.

Date.	Tank A			Tank B			Tank C			Tank D			Remarks
	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	
1910													
Sept. 16..	.15	.10	4.48	.10	.12	3.42	.12	.13	4.07	.16	.20	4.12	
	.12	.12	4.50	.10	.14	3.34	.10	.13	4.05	.15	.20	4.11	
	.15	.12	4.45	.11	.14	3.26	.10	.12	3.98	.17	.15	4.08	
Sept. 17..	.17	.09	4.41	.10	.13	3.06	.09	.12	3.08	.14	.15	4.11	
	.12	.11	4.43	.10	.13	2.98	.11	.15	4.05	.13	.17	4.11	
Sept. 19..	.15	.13	4.23	.10	.12	2.11	.10	.13	3.53	.11	.14	3.97	
	.15	.12	4.16	.09	.14	1.89	.09	.14	3.40	.12	.13	4.08	
Sept 20..	.14	.11	3.75	....	....	.....	.09	.13	2.65	.10	.12	3.57	
	.13	.11	3.65	....	....	.....	.08	.13	2.00	.10	.15	3.37	
Sept. 21..	.13	.11	3.61	....	....	.....	....	.16	2.17	.18	.09	3.21	
	.12	.14	3.57	....	....	.....	.10	.14	2.22	.11	.14	3.21	
Sept. 22..	.13	.11	3.10	....	....	.....	.10	.13	1.45	.11	.13	2.45	
Sept. 23..	.10	.17	3.00	....	....	.....	.11	.16	1.26	.19	.05	2.24	
	.22	.11	2.84	.15	.15	4.57	....	....	.....	.15	.15	1.87	
Sept. 24..	.11	.13	2.88	.14	.20	4.47	....	....	.....	.10	.17	1.87	
	.12	.10	2.60	.09	.20	4.45	....	....	.....	.11	.14	1.42	
Sept. 26..	....	....	.....	.29	.20	3.32	....	....	.....	....	....	.....	
	....	....	.....	.24	.20	3.33	.25	.30	4.21	....	....	.....	
Sept. 27..	....	....	.....	.21	.18	3.17	.25	.35	4.32	....	....	.....	
	....	....	.....	.19	.15	3.09	.24	.31	4.27	.28	.35	4.32	
Sept. 28..	....	....	.....	.14	.16	3.18	.22	.28	4.12	.33	.31	4.38	
Sept. 29..	....	....	.....	.16	.17	3.16	.25	.30	4.22	.22	.30	4.22	
	....	....	.....	.04	.15	3.14	.16	.27	4.12	.09	.33	4.22	
Sept. 30..	....	....	.....	.13	.17	2.92	.14	.20	4.02	.15	.27	3.74	
	.30	.25	4.43	.14	.13	2.58	.11	.18	3.56	.15	.26	4.11	
Oct. 1....	.26	.23	4.62	.11	.16	2.78	.13	.15	3.79	.13	.22	3.99	
Oct. 3....	.23	.21	4.21	....	....	.....	.10	.15	3.20	.24	.19	3.83	
	.21	.21	4.19	.26	.39	4.36	.14	.10	3.22	.20	.20	3.87	
Oct. 4....	.20	.18	4.20	.23	.39	4.47	.13	.15	3.47	.19	.16	3.61	
	.21	.18	4.20	.23	.30	4.07	.11	.13	3.21	.23	.16	3.91	
Oct. 5....	.24	.17	4.11	.24	.34	4.42	.10	.15	2.02	.20	.17	3.67	
	.19	.18	4.15	.16	.33	4.05	.12	.13	2.35	.20	.15	3.62	
Oct. 7....	.18	.15	4.02	.17	.27	4.22	.14	.16	1.85	.21	.15	3.41	
	.18	.13	3.92	.17	.26	4.00	.12	.14	1.55	.19	.17	3.26	
Oct. 8....	.17	.13	3.75	.17	.23	4.22	.12	.14	1.24	.20	.18	2.97	
Oct. 10...	.15	.15	3.70	.14	.20	4.07	....	....	.....	.20	.17	2.51	
Oct. 11...	.15	.15	3.65	.14	.20	4.04	....	....	.....	.19	.16	2.27	
	.17	.15	3.57	.14	.20	3.95	....	....	.....	.21	.16	2.03	
Oct. 12...	.14	.17	3.51	.16	.20	3.89	Rate	10 Mi	ll Call	.26	.14	1.79	
	.16	.14	3.35	.16	.21	3.79	.56	.69	3.52	.23	.17	1.54	
Oct. 13...	.16	.14	3.22	.14	.21	3.75	.50	.71	3.87	....	....	.....	
	.16	.15	3.08	.16	.20	3.69	.51	.68	3.76	....	....	.....	
Oct. 14...	.15	.12	3.00	.13	.20	3.68	.42	.67	3.65	....	....	.....	
	.20	.11	2.69	.15	.20	3.30	.36	.61	4.02	.57	.86	3.61	
Oct. 17...	.11	.18	2.29	.16	.19	3.16	.32	.21	3.62	.46	.86	3.79	
	.10	.17	2.14	.16	.16	3.07	.30	.31	3.52	.42	.89	3.74	
Oct. 18...	.08	.19	1.91	.14	.19	2.88	.27	.30	3.17	.40	.74	3.25	
	.14	.14	1.84	.15	.19	2.86	.25	.32	3.14	.37	.71	3.37	
Oct. 19...	.24	.06	1.77	.15	.19	2.86	.26	.28	2.95	.36	.50	3.01	
Oct. 20...	.20	.09	1.80	.16	.19	2.74	.27	.32	2.79	.34	.43	2.80	
Oct. 21...	....	....	.....	.16	.20	1.99	....	....	.....	....	....	.....	
Oct. 24...	.61	.60	4.04	....	....	.....	....	....	.....	....	....	.....	
	.62	.57	3.88	.52	.76	3.20	.58	.72	3.21	.72	.80	3.37	
Oct. 25...	.50	.55	3.90	.49	.76	3.69	.55	.75	3.67	.86	.84	3.21	
	.41	.55	4.09	.46	.77	3.76	.51	.73	3.67	.84	.84	3.12	
Oct. 26...	.35	.45	3.70	.41	.74	3.67	.47	.71	3.55	1.05	1.00	1.65	
	.39	.36	3.80	.40	.70	3.72	.41	.74	3.41	....	....	.....	
Oct. 27...	.35	.36	2.40	.32	.50	3.32	.29	.57	2.61	....	....	.....	
	.37	.33	2.83	.28	.43	2.91	.25	.51	2.10	....	....	.....	

EXPERIMENTAL STATION.

Sand Filters.—Appendix F.

Resistance Loss of Head (in feet) for 1 Foot of Sand.

Date.	Tank A			Tank B			Tank C			Tank D			Remarks.
	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd	1st	2nd	Head over 2nd.	1st	2nd	Head over 2nd	
1910													
Oct. 28...	....	....	.....	.26	.36	1.68	....	....	.....	.79	.76	3.33	
Oct. 29...	....	....	.....	....	....	.....	....	....	.....	.70	.91	3.57	
Nov. 1....	.36	.33	3.04	.34	.38	2.59	.40	.50	3.47	.78	.81	3.35	
	....	....	.....	....	....	.....	.31	.40	2.00	.84	.86	3.38	
Nov. 2....	....	....	.....	....	....	.....	....	....	.....	.88	.81	3.17	
	....	....	.....	....	....	.....	....	....	.....	.89	.77	3.02	
Nov. 4....	.64	.74	3.91	.55	.50	3.83	.66	.97	2.86	....	....	.....	
	.55	.75	3.74	.55	.50	3.79	.65	.97	3.24	.96	1.04	3.06	
Nov. 5....	.33	.52	2.49	.39	.43	3.11	....	....	.....	....	....	.....	
Nov. 8....	....	....	.....	.72	.78	3.25	.72	1.07	3.66	.96	1.02	3.23	
	.81	.73	3.80	.70	.74	3.02	.71	1.01	3.35	.86	.99	2.84	
Nov. 9....	.71	.77	3.79	.73	.79	3.16	.65	1.07	3.71	1.02	1.08	2.97	
	.68	.74	3.34	.68	.75	2.64	.56	1.02	2.32	....	....	.....	
Nov. 10...	.50	.67	2.57	....	....	.....	....	....	.....	....	....	.....	
	.43	.65	2.00	....	....	.....	....	....	.....	Rate	3 Mil	1 Calls	
Nov. 11...	....	....	.....	....	....	.....	....	....	.....	.44	.43	4.28	
Nov. 12...	.28	.25	4.62	.24	.34	4.13	....	....	.....	.26	.33	4.20	
Nov. 14...	.19	.24	4.73	.21	.30	4.48	.19	.27	3.47	.21	.27	3.35	
	....	....	.....	.20	.30	4.37	.17	.20	1.79	.36	.24	4.31	
Nov. 15...	....	....	.....	.15	.30	4.59	....	....	.....	.36	.33	4.31	
Nov. 16...	....	.25	4.79	.15	.28	4.59	....	....	.....	....	.28	4.32	
Nov 17...	....	.15	4.70	.13	.23	4.56	.30	.39	4.28	.36	.27	4.28	
	.18	.09	4.61	.12	.27	4.59	.27	.34	4.38	.35	.28	4.26	
Nov. 18...	.10	.14	4.65	.10	.17	4.51	.26	.34	4.41	.34	.29	4.11	
Nov. 19...	.10	.12	4.52	.10	.16	4.44	.22	.29	4.51	.28	.26	4.17	
Nov. 21...	.13	.08	4.45	.12	.13	4.22	.15	.28	4.47	.20	.22	3.76	
	.09	.13	4.47	.11	.12	4.29	.14	.28	4.45	.25	.22	3.64	
Nov. 22...	.10	.11	4.35	.11	.15	4.08	.15	.21	4.39	.18	.13	3.06	
Nov. 23...	....	.20	4.32	.11	.10	3.99	.13	.18	4.35	.17	.14	3.32	
Nov. 24...	....	.11	4.04	.11	.13	3.91	.12	.17	4.29	.15	.17	3.13	
	....	.13	3.96	.10	.12	3.75	.12	.18	4.07	.52	.16	2.75	
Nov. 25...	....	.11	3.87	.12	.13	3.83	.14	.15	4.32	.31	.17	2.97	
	.08	.13	3.86	.11	.12	3.83	.13	.16	4.32	.35	.15	2.92	
	....	.13	3.66	.11	.13	3.69	.12	.16	4.15	.78	.15	2.49	
Nov. 28...	.43	.12	3.26	.11	.13	3.30	.13	.13	3.95	....	.14	1.97	
Nov. 29...	....	.14	2.16	.10	.11	1.78	.10	.13	3.15	....	....	.....	
Dec. 1...	....	....	.....	....	....	.....	.10	.14	2.12	....	....	.....	
Dec. 2...	....	....	.....	....	....	.....	.10	.14	1.33	.08	.39	4.28	Not reliable.
Dec. 3...	....	.25	4.64	....	....	.....	....	....	.....	....	....	.....	
Dec. 5...	....	.23	4.60	.20	.36	4.46	....	....	.....	....	.35	4.35	
	....	.21	4.74	.18	.35	4.49	....	....	.....	....	.29	4.25	
Dec. 6...	.20	.19	4.62	.18	.30	4.41	.21	.32	4.24	.29	.25	4.12	
Dec. 7...	.17	.15	4.31	.18	.24	4.26	.31	.41	4.03	.33	.27	4.10	
Dec. 8...	.17	.16	4.10	.15	.22	4.08	.27	.35	3.60	.31	.18	3.74	
Dec. 9...	.15	.10	3.91	.13	.18	3.95	.20	.27	3.72	.32	.20	3.57	
Dec. 10...	.17	.11	3.72	.15	.15	3.82	.15	.31	3.30	....	.21	3.41	
Dec. 14...	.27	.15	1.85	....	....	.....	.31	.39	4.35	.40	.17	2.14	
Dec. 16...	....	.28	4.59	.31	.42	4.35	.27	.26	4.15	....	....	.....	
Dec. 19...	.20	.20	4.58	.20	.29	4.39	.18	.26	4.32	.38	.40	4.17	
Dec. 22...	.20	.12	4.42	.15	.16	4.37	.16	.19	4.31	.12	.28	4.27	
Dec. 27...	.21	.13	3.98	.17	.16	3.92	.15	.15	3.98	.30	.24	3.99	
Dec. 30...	.23	.13	3.77	.17	.17	3.85	.15	.14	4.01	.06	.19	3.71	
Jan. 5....	.22	.13	3.52	.14	.18	3.34	.13	.17	3.97	.21	.20	3.46	

PROVINCIAL BOARD OF HEALTH OF ONTARIO

EXPERIMENTAL STATION.

Chemical Analysis.

Tank.	Date.	Free NH_3	Alb. NH_3	Nitrites and Nitrates.	Total Solids.	Susp. Solids.	Diss. Solids.	Total Hard.	Temp. Hard.	Perm. Hard.	Diss. Oxy.	Turby.	Chloride.	Remarks.
Tap ..	Sep. 15–Dec. 4.	.006	.0875	....	.0156	....	.0156	135.0	96.7	25.6	9.3	21.8	8	
A	" "	.007	.095	....	.0155	....	.0155	117.1	101.7	17.5	10.2	1.25	8	
B	" "	.013	.095	....	.0161	....	.0161	119.6	96.0	23.1	10.25	1.5	8	
C	" "	.0106	.096	....	.0160	....	.0160	118.0	95.0	22.0	10.0	1.8	8	
D	" "	.005	.094	....	.0169	....	.0169	120.8	95.0	27.2	10.0	1.8	8	
Tap ..	Sep. 15–22....	.025	.085	....	.0167	....	.0167	125.0	99.0	26.0	.....	....	..	
	Sep. 25–Oct. 4.	.....	.11	....	.0157	....	.0157	126.0	97.5	.....	.....	....	..	
	Oct. 4–12	.....	.07	....	.....	....	.....	144.0	.....	....	.....	....	..	
	" 12–16	.....	.03	....	.0169	....	.0169	144.0	.....	....	.....	....	..	
	" 26–Nov. 2..	.....	.105	....	.0135	....	.0135	111.0	100.0	16.0	.....	....	8	
	Nov. 5–10.....	.....	.11	....	.0155	....	.0155	121.0	92.0	29.0	.....	....	..	
	" 11–18.....	.....	.09	....	.....	....	.....	130.0	98.0	32.0	9.3	8.7	..	
	" 29–Dec. 4..	.025	.10	....	.....	....	.....	119.0	94.0	25.0	.....	35.0	..	
		.006	.0875	....	.0156	....	.0156	135.0	96.7	25.6	9.3	21.8	8	
A	Sep. 15–22	.....	.08	....	.0158	....	.0158	120	102	18	.....	....	8	
	" 25–Oct. 4 .	.....	.065	....	.0163	....	.0163	103.5	99.5	....	.....	....	8	
	Oct. 4–12	.03	.115	....	.....	....	.....	129.5	.....	....	.....	....	..	
	" 12–16	.....	.065	....	.0168	....	.0168	116.0	.....	....	.....	....	..	
	" 26–Nov. 2.	.....	.115	....	.0145	....	.0145	119.0	110.0	19	.....	....	8	
	Nov. 5–10	.....	.13	....	.0143	....	.0143	113.0	90.0	23	.....	....	8	
	" 11–18	.025	.095	....	.....	....	.....	119.0	109.0	10	9.7	1.5	..	
	" 29–Dec. 4.	.....	.....	....	.....	....	.....	.....	.....	....	10.7	1.0	..	
		.007	.095	....	.0155	....	.0155	117.1	101.7	17.5	10.2	1.25	8	

Dissolved Solids in Grams per 100cc., other quantities in parts per million.

EXPERIMENTAL STATION.

Chemical Analysis.

Tank.	Date.	Free NH_3	Alb. NH_3	Nitrites and Nitrates.	Total Solids.	Susp. Solids.	Diss. Solids.	Total Hard.	Temp. Hard.	Perm. Hard.	Diss. Oxy.	Turby.	Chlorine.	Remarks.
B	Sep. 15–22	.....	.08	....	.0154	....	.0154	123.5	100.0	23.5	.....	....	..	
	" 25–Oct. 4.	.015	.12	....	.0155	....	.0155	107.5	97.0	....	.....	....	..	
	Oct. 4–12	.....	.074	....	.....	....	.....	139.5	.....	....	.....	....	..	
	" 12–16.....	.....	.065	....	.0166	....	.0166	114.0	.....	....	.....	....	..	
	" 26–Nov. 2..	.015	.13	....	.0186	....	.0186	119.0	97.0	22.0	.....	....	8	
	Nov 5–10.....	.07	.13	....	.0146	....	.0146	123.0	89.0	34.0	.....	....	..	
	" 11–18.....	.....	.08	....	.....	....	.....	109.0	99.0	10.0	10.7	1.5	..	
	" 29–Dec. 4.	.01	.085	....	.....	....	.....	120.0	94.0	26.0	9.8	1.6	..	
		.013	.095	....	.0161	....	.0161	119.6	96.0	23.1	10.25	1.5	8	
C	Sep. 15–22	.04	.095	....	.0163	....	.0163	119.0	99.0	20.0	.....	....	..	
	" 25–Oct. 4.	.....	.115	....	.016	....	.016	113.0	97.0	....	.....	....	..	
	Oct. 4–12	.....	.065	....	.....	....	.....	132.8	.....	....	.....	....	..	
	" 12–16.....	.01	.065	....	.0170	....	.0170	116.0	.....	....	.....	....	..	
	" 26–Nov. 2.	.....	.105	....	.0163	....	.0163	110.0	97.0	13.0	.....	....	8	
	Nov. 5–10	.....	.125	....	.0148	....	.0148	119.0	90.0	29.0	.....	....	..	
	" 11–18	.01	.09	....	.....	....	.....	111.0	97.0	14.0	10.0	1.3	..	
	" 29–Dec. 4.	.025	.11	....	.....	....	.....	124.0	90.0	34.0	.....	2.3	..	
		.0106	.096	....	.0160	....	.0160	118.0	95.0	22.0	10.0	1.8	8	
D	Sep. 15–22	.....	.08	....	.0154	....	.0154	118.0	95.0	23.0	.....	....	..	
	" 25–Oct. 4.	.015	.11	....	.015	....	.015	109.0	97.5	....	.....	....	..	
	Oct. 4–12	.....	.065	....	.....	....	.....	132.9	.....	....	.....	....	..	
	" 12–16	.....	.045	....	.....	....	.....	116.0	.....	....	.....	....	..	
	" 26–Nov. 2.	.025	.114	....	.0218	....	.0218	123.0	98.0	25.0	.....	....	8	
	Nov. 5–10.....	.01	.20	....	.0154	....	.0154	120.0	91.0	29.0	.....	....	..	
	" 11–18.....	.....	.07	....	.....	....	.....	127.0	98.0	29.0	10.0	2.0	..	
	" 29–Dec. 4.	.....	.07	....	.....	....	.....	121.0	91.0	30.0	.....	1.7	..	
		.005	.094	....	.0169	....	.0169	120.8	95.0	27.2	10.0	1.8	8	

Dissolved Solids in Grams per 100cc., other quantities in parts per million.

APPENDIX "A."

The reports appearing in this Appendix were received from the Secretaries of the different Local Boards of Health of the cities and towns of the Province, in conformity with section 60 of the Public Health Act, and have been edited by the Secretary of the Board.

BERLIN.

DR. J. MCGILLAWEE, M.O.H.

I beg to submit the report of the Medical Health Officer for the year 1912.

There has been a marked decrease in the number of contagious diseases from the previous year.

There were nineteen case of Diphtheria, with four deaths.
Eighteen case of Scarlet Fever, with two deaths.
One death from Bronchitis following measles.
Eight cases of Typhoid, with three deaths.
There were eight deaths from Tuberculosis. Three cases of Tuberculosis at present.

The milk supply has been on the whole good during the year. It is being impressed on the Milk Dealers that strict attention must be paid to cleanliness in the handling of the milk, referring particularly to the producer.

The water supply was contaminated for a short time, but the last report from the Provincial Laboratory pronounced the water pure. In connection with the water supply, I would recommend the establishing of flowing fountains in the schools.

JOHN F. MCKAY, CHAIRMAN, L.B.H.

Pursuant to Sec. 3, of schedule B, of the Public Health Act, I present you with a report, containing a detailed statement of the work of the Local Board during the year 1912, also the report of the sanitary condition of the municipality, as rendered to the Board by the Medical Officer of Health.

The attendance of the members of the Board at the Regular Meetings held during the year, with little exception, has been very good. It is worthy of notice that without exception the Board is composed of gentlemen of a high grade of intelligence, and while every item of business has been conducted with a strict view to economy, yet every proposition for the promotion of the public health, as well as the protection of the peeople against disease, has no suffered on account of parsimony.

Commendable efforts have been put forth by the Board to eradicate as far as practicable all out-door water closets, and establish instead proper sewer connection. On account of an imperfect system of sewer connection inspection, many connections heretofore have been improperly made, for which the city pays the penalty of insanitary conditions. As many as possible of these unsuitable connections have been located and remedied, and a system of inspection instituted, which will be a safeguard against a recurrence of similar blunders in the future.

Particular attention has been given to the inspection of milk, the health of various dairies supplying milk to the City, as well as the sanitary condition of the stables has been looked after, and a printed code of rules, regulations and recommendations, furnished by the Department of Health, to all owners of cows furnishing milk to the City.

The Medical Officer of Health whose duty it is to inspect the milk assisted by the Sanitary Inspector, is supplied with a Babcock tester which gives the per cent. of butterfat contained in the milk. This gentleman is also supplied with an ingenious modern invention made in Chicago by means of which milk may be forced through a prepara tion of cotton, thus determining its purity or the reverse. The Medical Officer of

Health has also attended the Ontario Agricultural College on various occasions for the purpose of acquiring a scientific knowledge of the operation of these appliances, so that any official tests made by him in this line may safely be considered authoritative.

The Board has experienced considerable difficulty in dealing with the chicken problem. There is no very explicit law governing the location of chicken pens, consequently about the only way that any protection can be afforded to those who suffer in this respect is when the location of a chicken pen can be shown to be a nuisance.

The Isolation Hospitals are in proper condition and supplied with fuel, light and water, together with cots, bedding, cooking stoves, utensils, etc., and other appliances requisite for the care of those afflicted with contagious diseases.

Two cases of measles were accommodated in the Smallpox shack in the early part of summer. These were young men from Fort William, who were put off a Grand Trunk train and had to be provided for at the Isolation Institution. There was little or no expense in this connection, as the young men in question waited on themselves and found their own board.

There are at the present time several cases of malignant diphtheria being treated in the Isolation Hospital, necessitating the employing of two qualified nurses. The Medical Officer of Health and the Sanitary Inspector are both putting forth commendable efforts towards stamping out the disease, and especially in endeavoring to prevent the spreading of the contagion.

The matter of a supply of pure ice has been a perplexing problem, especially during the year 1912. The supply has been harvested for years from Victoria Lake, but on account of a vast accumulation of deleterious matter in the bed of the lake, the Local Board, advised by the Provincial Board, will forbid the harvesting and sale of ice from this source for domestic purposes.

BRANTFORD.

DR. F. G. E. PEARSON, M.O.H.

Herein I present you a brief report of the department for the year ending October, 31st, 1912.

MORTUARY STATISTICS.

For the period comprising this report there have occurred—exclusive of 22 stillbirths—257 deaths, which to the population as given by the assessors' returns, 25,337, gives a mortality rate of 10.10 per thousand. This in itself is very gratifying as being the lowest of any previous death rate, and as compared with the preceding twelve months shows also a decided decrease, for in 1910-1911 the rate was 12.5.

As to causes of deaths we find:

Tuberculosis	21
Pneumonia	28
*Typhoid Fever	8
Diphtheria	1
Whooping Cough	5
Meningitis	9
Cholera Infantum and Intestinal diseases of children	26

*This includes hospital report, of which there were seven from outside.

As to ages.—We find that 84 deaths occurred under 1 year.
19 " between 1 year and five years.
79 " over 60 years.
34 " over 80 years.

Therefore, notwithstanding the fact that a great many had passed the three score years and ten, there were also a large number that occurred under the one year mark and as previously recorded no less than 26 of these infantile deaths were due to intestinal diseases which take place particularly during the summer months.

This is one of the matters that demand our attention, for no doubt the large percentage of these cases is directly due to improper and unsanitary methods of dealing with the food of the child, and among the prominent causes I think we can place the unsanitary feeding bottles and the improper care of the milk from which they are infected.

This is an important question and should demand the attention of all mothers in seeing that absolute sterilization be done to both the food and the vessel in which it is contained. This with the proper hygiene of the child would, I think, reduce this mortality very materially.

It is here where I can see a good field for the operation of a visiting nurse who could give the proper instruction, etc., and a department which I think should soon be inaugurated by the Board.

Contagious Diseases.

During the past twelve months there have been reported at this office, in all 115 cases of contagion, which in comparison with the previous year—140 cases—is a very satisfactory decrease, and were as follows:

Diphtheria

Of this disease there were in all 18 cases with one death, as compared with 22 cases with four deaths for the preceding year.

Scarlet Fever.

Of Scarlet Fever there were 26 cases with no deaths, as to 34 cases with no deaths for the corresponding period of 1910-1911.

Typhoid Fever.

As with the preceding, we are also pleased to record a decided decrease in typhoid from the City for the past year. There were in all 24 cases reported, 7 of which were from outside sources, with one death, as compared with 55 cases and 8 deaths for the preceding year. And here again I wish to make some explanation. As noted in a previous part of the report, we are credited with 8 deaths from typhoid, of this number but one was from cases occurring in the city, the other 7 were in cases reported from the hospital, and we find cases occurring outside the city but were treated in the hospital, and thus the deaths were reported in the municipality. We get the credit of these, whereas but one should be registered against the cases occurring in the city.

Smallpox.

Of this disease we had 3 cases with no deaths, the cases were directly traceable to an outside source, being contracted at a summer resort.

Measles, Whooping Cough, etc.

Of these we had recorded in all 44 cases, with 6 deaths, 5 of these being registered against Whooping Cough, and one due to Measles.

Tuberculosis.

As this disease has now come under the class of a reportable disease, it is to be hoped that we may be able, therefore, to get some better results as to its care, etc.

The deaths for the year as before stated were 21, an increase over last year, when we had but 14.

As regards the treatment of this class of disease up to the present, we have been sadly handicapped, but I am pleased to report that the object for which we have so long striven is about now to be realized, viz.: I am pleased to report that the sanitarium for this class of disease is now in process of construction, and will, I am certain, be a great advantage to the city, both in the care of, and the educational influence it will have in reducing this dreaded trouble.

Public Abattoir.

In this matter which has so frequently been brought to your attention, I am again compelled to emphasize as an absolute necessity for the protection of the citizens in the way of obtaining a pure and wholesome meat supply. The arguments that have before been used in its favor are daily being confirmed, and without going over them again, I will merely mention the facts that so frequently occur in the results of the market inspector's vigilance, which outside the means of a proper meat inspection—which alone can be had in a public abattoir, he has been able to show the public that much diseased meat is publicly offered for sale upon the public market alone, beside which the slovenly and insanitary way in which the products are frequently handled should demand that some effort should be put forth to gain a means whereby pure food could be guaranteed to the consumer.

I have also to recommend for your consideration that some proper and more modern structure be provided for the care of contagious disease. I here refer particularly to an increase in capacity of our present Isolation Hospital which I hope in the proposed extension of the General Hospital will be considered favorably. But, the most crying need is that a proper and modern structure be constructed for the care of smallpox, the present structure having outworn its usefulness.

Another matter which I propose for your approval is additional help in the sanitary work, for at least the summer months, for with one sanitary Inspector it is absolutely impossible to make the proper house to house inspections that should be made, for with routine work, one man cannot find time to make house to house rounds, and, thus, I am quite sure that from April to November an extra Inspector could be very profitably employed; also, I think that it is decidedly in the interest of the health of the community that an ordinary Inspector be employed to look after the dairies and slaughter houses at various times during the season. This of course has been done on occasions, and from the reports of such, I am certain much good can be accomplished to have this done systematically and regularly.

CHATHAM CITY.

Dr. W. R. Hall, M.O.H.

I herewith submit my annual report for the year ending Nov. 30th, 1912.

Contagious Diseases.

We have enjoyed exceptional freedom from all contagious diseases during the year.

Scarlet Fever—Three cases in November, 1912, from three distinct points of infection, all recovered.

Diphtheria.—Four cases, three in December, 1911, and one in February, 1912, two of the cases in December 1911 ended fatally.

German Measles.—Two cases.

Typhoid Fever.—Twenty-two cases, one death.

Tuberculosis.—No cases reported, although twelve deaths were reported from this cause.

Vital Statistics.

Total deaths registered 202, of these 47 were non-residents who died in the City hospitals, leaving 155 deaths of residents. Death rate 14.2.

Births.—194, Males 105, Females 89; rate 17.6.

Marriages.—190.

Full advantage was not taken of many provisions in the New Health Act, though much was done in an Educational way which will prepare our citizens for its enforcement next year, I refer especially to the clause requiring all horse manure and stable refuse to be kept in closed boxes, for the purpose of mitigating the fly propagating nuisance.

Milk.

A new By-law was passed during the year and a very good Laboratory equipped for the examination of milk. A great many samples of milk from various sources were examined with the object of establishing an average content for butter-fat and total solids; these examinations fully establish the fairness of the standards required by the Milk By-law recently passed.

GUELPH.

Dr. H. O. Howitt, M.O.H.

The following is report for the year ended November 30th, 1912.

Mortality.

There occurred in the City of Guelph during the year 209 deaths, a decrease of 2 from the previous year. Although these deaths occurred actually within the city limits, a number were people from a distance who had come to our local institutions for treatment. Dividing the deaths into decades of years, we find that

There were 51 persons who died in the first 10 years.
There were 3 persons who died between the ages of 10 and 20.
There were 12 persons who died between the ages of 20 and 30.
There were 20 persons who died between the ages of 30 and 40.
There were 11 persons who died between the ages of 40 and 50.
There were 21 persons who died between the ages of 50 and 60.
There were 34 persons who died between the ages of 60 and 70.
There were 30 persons who died between the ages of 70 and 80.
There were 19 persons who died between the ages of 80 and 90.
There were 7 persons who died between the ages of 90 and 100.
There was 1 person who died between the age of 100 and 110.

In the first decade, that is 1 to 10 years, 16 of the 51 were still-born, 28 died in the first two years of life, and 7 between 2 and 10 years of age.

As usual, the greatest mortality is the infant mortality, namely, in the first two years of life. In 1911 the infant mortality was 41. In 1912 this has been reduced by 13, a reduction of 30 per cent.

The Milk Question.

In last year's report considerable stress was laid on the dissemination of disease by flies, and particular attention was drawn to the part that the fly plays in spreading intestinal infection of children, known as Summer Diarrhœa, Infantile Colic, etc. The public have in the last twelve months had ample opportunity to be enlightened on this subject, and I am inclined to believe that some portion of the drop of 30 per cent. in the infant mortality has been due to the knowledge gained on this subject by the public.

Major Merewether, assistant sanitary inspector, with his weekly articles in the press deserves considerable credit for his share in the work, but probably the rainy Summer and absence of prolonged heat was the chief cause in the reduction of this disease.

Attention was drawn to the milk depots in the City of New York and the remarkable fall in the infant mortality rate in that city as a result, and the statement was made that arrangements were being completed whereby Guelph's citizens would be able also to have the purest milk obtainable, and thus wipe out as much as possible the chief cause of infant mortality. I was disappointed with the number of applications that were made for the milk, and no doubt the wet Summer greatly lessened the demand.

Already this year the results have been published of tests made from milk supplied by the local milk dealers. These were the Babcock tests, which gave the percentage of butter-fats, the relative percentage of water, and other ingredients, which would show largely the food value of the milk, whether watered or not, but would not show whether the milk contained the germs of disease. So I am including in this report the following extracts from a report of bacterial tests of the Guelph milk supply made for me by Messrs. E. J. Wood and E. Davies of the O. A. C.—

"A fair idea of the quality of Guelph's supply may be obtained by comparison made with the standards demanded by Toronto and Rochester Boards of Health. It is estimated that between 80 and 85 per cent. of the milk received in these two cities is well above the standards set. Toronto (under Provincial Act) demands 3 per cent. butter fat, 12 per cent. total solids, and not more than half a million bacteria per cubic centimetre. According to this, Guelph compares favorably with that of Toronto, 70 per cent. of Guelph's samples being above the standard in bacteria and total solids, and 85 per cent. above the standard for fat. Rochester's standard is much higher. It insists on 3.25 per cent. fat, 12 per cent. total solids, and not over 100,000 bacteria per cubic centimetre. According to this standard only 25 per cent. of Guelph's samples are above in bacterial count, 85 per cent. in fat, and 75 per cent. in total solids—not a very favorable comparison. If Guelph adopted Toronto standards, 30 per cent. of our milk would be condemned, and 70 per cent. would be condemned by the Rochester standard." But during the year a comparison was published of the Guelph supply with that of number of Ontario towns, and Guelph was very much above the average, and compared decidedly favorably with other small cities, as well as with Toronto.

The following is the order in which the Guelph dealers stand in the report of the bacterial tests; an average of 3 samples were taken from each; some of their samples were much superior to others, and an average of all their samples is the basis of their standing in the following list:—

Barrett Dairy Company	87.65
Noble	81.25
Dawson	79.2.
Dodds	79.
Brown	77.86.
Grieves	74.06
Boreham	73.16.
Farr	69.8.
Goy	69.75.
Green	69.6.
Carter	69.
Darnell	67.46.
Whittaker	67.13.
Smith	65.35.
Stout	63.62.
Willis	61.7.
Eckstein	51.

These are based on a possible count of 100, and the markings are strictly according to the highest standard of essential elements of milk, cleanliness, and relative absence of germs.

Closure of Rendering Plant.

The Board of Health was adversely criticized for the length of time which was taken in closing the Rowland Rendering Works. I might say that the powers of the Board of Health are limited by Statute. The rendering plant was closed as quickly as it was in power to act. The complaint was made, and just as soon as it could be sworn to as a nuisance the necessary two weeks were given to the man to have it closed. The Public Health Act does not give power to the Local Medical Health Officer or to the Board of Health to abate a nuisance if in the abatement of that nuisance people are thrown out of work and it concerns the involvement of certain money expenditure, unless sanctioned as well by the Provincial Board of Health. The Provincial Board of Health sent up an inspector who confirmed the opinion of the Local Board, but the City Solicitor informed us that it was necessary for the Provincial Inspector to again inspect the place. This caused considerable delay. When the Provincial Inspector came the second time and it was in our power to close the place, the Rowland Company were given two weeks' notice and the place was permanently closed. We acted entirely under legal advice, and the place could not have been permanently closed a day sooner than it was.

Infectious Diseases.

Last year we had 14 cases of Typhoid Fever with 2 deaths. Nearly every one of these was supplied with well water, and in not one case had city water alone been used. This year there were 8 cases of Typhoid Fever, and no deaths from it, reported in Guelph. In three of these cases the disease was contracted in Ottawa, one at camp at Niagara, one at Elora, one was a recent arrival from the Northwest, and two contracted in Guelph, both of whom had used well water.

There were 63 cases of Diphtheria, and four deaths resulted.

Fifteen cases of Scarlet Fever, and one death.

There were reported to the Board 4 cases of measles, 15 of Chicken-pox, and only 2 cases of Tuberculosis were reported to the Board, but 12 death certificates were filed giving the cause of death as Tuberculosis. The new Act makes it compulsory in the future for a medical man to report Measles, Chicken-pox and Tuberculosis.

Meat Inspection.

Early in the year a deputation from Guelph and Berlin waited on the Provincial Secretary asking that the municipalities be given power to inspect the meat offered for sale within their limits, this inspection to be before and after killing. At that tme we were discouraged in our attempt, but since then Toronto and other cities have taken up the matter, and it is possible now for a municipality to have its own municipal abattoir.

Vaccination.

For years it has been compulsory that every child attending the public schools be vaccinated. The new Act leaves it at the discretion of the Board of Health and Medical Health Officer whether this be enforced or not; formerly the Boards of Education had this power.

I would recommend that the very small percentage of parents who honestly believe that vaccination for Smallpox is dangerous and of no benefit, be given the alternative —that their children be exempted from vaccination and permitted to attend school, upon the parents signing a statement to this effect, i.e. that they honestly believe that vaccination for Smallpox is dangerous and of no benefit. This privilege, however, should be subject to the same conditions as are attached in England, namely, that it shall be revoked if Smallpox be present in the City. It seems, however, to me inconceivable that anyone informed on the subject from a scientific point of view should object to the vaccination properly done in anyone physically healthy.

I would also recommend that no person suffering from Typhoid Fever be allowed to remain in that district South of the York Road and North of the River Speed between the City Limits and the Reservoir at the Waterworks, as the trunk line of our water supply comes through this district, which is rapidly becoming populated, and with a leak in that trunk line (and no doubt there are leaks in that trunk line) it would be possible for the presence of one case in that district to be a great menace to the health of the entire city. A small Pennsylvania town had its water supply infected by the excreta of a single patient and hundreds of cases resulted, and many people lost their lives. In Ottawa last year the water supply became infected from the sewage, and over a thousand cases were contracted there in a few weeks and many lives were lost. So I consider it essentially imperative that no case of typhoid fever be permitted to remain in this district.

Sewerage System.

As there is no sewerage system in St. Patrick's Ward at present this danger of infection to the city's water supply is acute. It would be almost removed were a proper sewerage system available for the citizens of that district. St. Patrick's Ward, and especially this portion referred to, should be given a sewerage system as soon as it is possible to do so.

On the minutes of our meetings will be found reference to the inability of the main sewer on Waterloo Avenue to handle the sewage of the city. Already it is too small. We recommend to the Council that this line be duplicated or enlarged, according to the opinion of the Engineer; this duplication to be from the Edinburgh Road to the sewage farm.

HAMILTON.

Dr. James Roberts, M.O.H.

Vital Statistics.

By reference to the tables it will be seen that during our statistical year, November 1st., 1911 to October 31st., 1912, there were registered 2,461 births as compared with 2,081 for 1911, representing a birth rate of 27.6 as compared with 25.4 for 1911. The ratio per 1,000 of population for the Province in the Registrar General's report for 1911 is 25.4.

The deaths for the year numbered 1,343 as against 1,162 for 1911. Excluding still births we have a mortality of 1,139 and 1,003 for 1912 and 1911, respectively, or a death rate per thousand population of 12.7 and 12.3 for those two years. By including in the total deaths those of 33 and 29 non-residents at the hospitals as will be done by the Provincial Registrar, we will have a death rate of 13.1 for 1912 and 12.6 for 1911.

In the following tables these deaths are not included as they depend upon the fact that our hospitals are favourably located for out of town patients and in no way reflect on the sanitary condition of our city.

The Registrar General's report for 1911 gives an average death rate of 17.1 for the city municipalities of Ontario.

A regrettable feature of our death statistics is disclosed in the fact that still births represent a gradual increase per thousand of population for some few years past as seen by the following figures:

For 1912	2.29	per thousand.
" 1911	1.92	"
" 1910	1.62	"
" 1909	1.52	"

The figures do not necessarily justify any sinister conclusions from a moral point of view but are largely explainable by the fact that we have a large incoming population seeking housing, homes and a livelihood under stress and strain both physical and mental, and oftentimes under circumstances altogether uncomfortable.

Communicable Diseases.

4,327 cases of Communicable disease were reported as compared with 1,122 for 1911, the numerical increase in cases being mostly attributable to the epidemics of measles, whooping cough and mumps which prevailed from December until July.

The total deaths from this group of diseases numbered 162 in 1912, 117 in 1911, 164 in 1901 and 162 in 1909, or a death rate per thousand of 1.82,—1.55,—2.25 and 2.31 for these years in the above order.

Diphtheria.

Of diphtheria 130 cases were reported, 89 in 1911 and 152 in 1910. In 1910 our percentage mortality was 15.1; in 1911 our percentage was 11.2; while this year it is 7.6.

I have already recommended to your Board the free provision of antitoxin for all cases which, if undertaken, together with securing at the city's expenses the services of a skilled laryngologist for cases deemed urgent by attending physician, would lessen the mortality percentage of diphtheria very materially.

Scarlet Fever.

Three hundred and thirty-nine cases of scarlet fever were reported for 1911. The deaths from this disease numbered 3 as compared with 8 in 1911 and the same number in 1910. Our percentage of mortalities from this disease are as follows for the past four years.

In 1909	3.65.
" 1910	3.62.
" 1911	2.42.
" 1912	.88.

Whooping Cough and Measles.

The deaths from whooping cough and measles combined numbered 38, approximately three times the number of deaths from diphtheria and scarlet fever combined. Owing to the fact that in the returns to the Division Registrar deaths due primarily to these two diseases are attributed to broncho pneumonia, the baneful results of the so-called "minor contagious diseases" particularly in early childhood, are certainly not exaggerated by the above figures.

Tuberculosis.

Caused 87 deaths as compared with 68 in 1911 and 81 in 1910. In the following table, deaths from tuberculosis are given as percentages of the total death rate for sixteen years.

1897	11.4	1905	7.7.
1898	13.5	1906	8.1.
1899	12.5	1907	7.3.
1900	13.8	1808	8.0.
1901	10.3	1909	10.0.
1902	13.0	1910	7.1.
1903	8.4	1911	5.8.
1904	9.9	1912	6.5.

It will be seen that mortality from tuberculosis averaged during the quinquennial period from 1898 — 1902, 12.6% of the total mortality; during the period from 1903 — 1907, 8.3%; and during the period from 1908 to 1912 inclusive 7.5% of the total deaths from all causes.

Typhoid Fever.

Forty-eight cases in all of typhoid fever were reported, including those reported by phone and card from the laboratory of Public Health. The epidemiological evidence in connection with these cases showed only 27 to have been infected while residing in the city, and for which therefore sanitary conditions existing in the municipality are responsible.

The deaths numbering 8 would seem to indicate a considerable number of unreported cases. That it is possible for such a conclusion to be too hastily made will be seen by a glance at our total examinations of blood for the agglutination reaction, namely 209.

A feature which tends to create a disproportion between death rate and statistical returns of typhoid fever is the reluctance on the part of some persons about sending patients to a hospital. When the focus of infection remains in the home, isolation and nursing facilities are inadequate, contact and fly infection little understood and their seriousness disregarded, with the result that where we have a virulent infection, considerable percentage of all the typhoid deaths in the municipality occur in one, two or a few families.

Smallpox.

Was imported into the city by the arrival of some negroes from a small village in North Carolina where there had been a considerable epidemic. From this source we had probably ten or a dozen cases before vaccination and quarantine enabled us to prevent any further spread of the disease. Later on a young woman on a visit from Norfolk County brought with her what was supposed to be, or had been diagnosed, chickenpox. Three or four families at least, had been infected before the department was notified and several persons having the eruption in mild form, followed their usual avocation or went about the city unrestrained. It has consequently been rather difficult to get at the contacts and to effectually stamp the disease out.

Housing.

After trying over a considerable period to arouse public protest in respect to housing conditions existing in Hamilton, we were able at a public meeting called by the Mayor to present the following report on the situation.

Permit me to preface the information in this incomplete and hastily compiled report by expressing my sincere concurrence in the belief that "nothing can so effectually destroy a city's future as the disproportionate increase of homes that are insanitary damp, dark, unventilated, unclean, unattractive and immoral." The overcrowded tenement and the slum, long tolerated as the natural concomitant of wealth and prosperity, and even regarded as the insignia of bigness and commercial activity, are gradually discovering themselves in their true significance as the preludes to civic disaster and national ruin.

Some six years ago I experienced a sense of pride in contributing to the city's publicity literature as follows: "Although the greatest manufacturing city in the Dominion, Hamilton, from a sanitary point of view, ranks as one of the most attractive residential localities in Canada.

Birmingham, Manchester and Pittsburg are associated in our minds with visions of tall chimneys, dust begrimed houses in the squalid industrial districts, and troops of neglected children.

Such a conception of the Birmingham of Canada would be an entirely erroneous one.

Our manufacturing plants are in nearly all instances, especially where recently established, models of the practical application of modern sanitary methods.

The homes of the industrial classes clustered around or near to the scene of their daily occupation, are in the main substantial and comfortable.

Our people are healthy, are mentally and physically up-to-date and progressive, are law-abiding, and imbued with the idea of keeping Hamilton in the forefront of Canadian Cities." I believe this quotation to be a fair representation of then existing conditions.

Nature has indeed smiled upon our city. In situation and environment and abundance of all natural advantages, we occupy a unique—an almost ideal position. Nevertheless, after having passed with comparative ease and safety through the dangers and diseases of infancy and childhood, we find ourselves in common with all rapidly growing American cities, face to face, at the threshold of our adult life, with the cancers and plague infections incident to the maturity of most urban communities.

No observant citizen at all in touch with actual conditions will deny that Hamilton has a housing problem.

The influx of artisans and laborers from the United States, Great Britain and other countries of Europe and the migration of workers from outside places have made the demand for additional housing accommodation steadily more urgent and pressing. The inflowing army of persons seeking employment, consisting largely of those with little or no capital and very few temporal possessions, is driven inside the city as the direct or indirect consequence of the prohibitive land values at its circumference. With what results? Every available four walls that under normal conditions of city growth would never be accused of being part of a home is eagerly seized upon and occupied, no matter how outrageous the rental.

With the object of supplying the civic authorities with some concrete and reliable data relative to conditions existent at the present time, I detailed two or three inspectors over a period of one week, to investigate as many homes as possible and to submit reports in detail points they considered relevant to our inquiry.

In all 263 familes were visited and inspections made. The 263 families, aggregating 2,200 people or between 8 and 9 per family were housed in 1,094 rooms, an average of four rooms for each family. The total monthly rental paid by these 263 families amounted altogether approximately, $3.000 per month or $36.000 per year; an average of $11.25 per month for each home of four rooms. Twenty-eight families were able to afford only one room each for living, cooking and sleeping accommodation; while two rooms answered a similar purpose for 47 of the total. One hundred and thirteen families or 43 per cent. of the entire number lived in 3 rooms or less. Fifteen families were domiciled in basements. These basements are described by the Chief Inspector in several instances as being dark, damp, cold and clammy—"more suggestive" to use his own words "of a morgue than of a dwelling house." The largest number of occupied rooms in these underground habitations was three, the rental for these in one instance being $8.75. The number of inhabitants in most cases ranged from 2 to 6 persons, the latter number comprising a man, his wife, and 3 or 4 children. In perusing the Journal of the Royal Sanitary Institute, I find the Borough Council of Woolwich to have recently obtained a conviction in a case where the front basement room proved to be dark, this being the only nuisance complained of. The room was not separately occupied or used for sleeping; it was lighted by a window looking into a small area having over it a grating through which alone light could be obtained, and it was proved that large print could not be read in the middle of the room on a clear day an hour before sunset. The Medical Officers of Health of Greenwich and Woolwich gave evidence to both of the rooms being dark and their opinion that light was essential to health. For the defence it was shown that the tenants had occupied

the room for over twenty years and were still alive. An order was made to abate the nuisance with 23 shillings costs. This, in the British Islands with its forty millions of souls and its area not more extensive than one small province of this Dominion. Nine families were housed in attics. In one of these within a couple of blocks of the City Hall, a man, his wife and four children lived. The entire space allotment for cooking, eating and sleeping, was a room 14x14 with one small window less than 2x4. It is entirely superfluous, almost an insult to common intelligence, to remark that the unhygienic environment was reflected in the countenances of the children. Sixty-seven houses showed overcrowding in a marked degree. These places are tenanted for the most part by newcomers of the industrial class of every nationality, who know absolutely nothing about the value of sunlight or fresh air—the atmosphere in some cases being so oppressive as to be unbearable. In one seven-roomed house were 45 men. In a house of eight rooms, including a basement of three rooms, were 49 persons. Of these 23 men slept in two rooms of the basement, while in the third basement room, a father, mother and four children lived, ate and slept in a room 8x10. In another nine-roomed house were 33 people, of whom ten slept in the basement. A small seven-roomed house contained 25 people, sleeping in five rooms. In other instances the number of occupants ranged from 15 to 30 in houses of 6 to 9 rooms. An attic contained 6 double and 2 single beds, where 14 men slept in an air space not exceeding 2,000 cubic feet.

In a one-roomed house 12x18, with no water closet, no privy vault and no water supply, lived man, wife and three children. One family of nine people occupied a basement in the southwestern part of the city, consisting of three rooms, for which they paid a rental of $7 per month.

In the central portion of the city one landlord has removed an old frame house to the rear of an averaged sized lot so that it abuts on an alley. Two modern brick houses have been erected at the front of the property. The old frame house, consisting of five rooms, has been rented to two families, three rooms to one for $12 per month, two rooms to the other for $10 per month. The basement is being fitted up to accommodate two families, and the owner expects to realize a total rental of $40 per month.

In practically all overcrowded premises sanitary conditions were bad; the bedding dirty, floors and walls neglected and lavatories unclean and foul smelling. Cases have come under my personal observation where beds have to be shifted with every change of weather to avoid the rain which comes pouring through the roof.

Thirty-two families were absolutely without water service and dependent on neighbors for a water supply, and while fifty houses had only the insanitary privy vault in thirty-two of these there was no provision for even waste water except in the back yard, the alley or an open drain.

Nothing but a house to house inspection, extending over several weeks and carefully undertaken, could enable us to get absolutely reliable data with reference to our housing problem. Admitting for argument's sake that we have alighted on some extreme conditions, can it be denied that while the number of homes in Hamilton is greatly on the increase, the number of unwholesome habitations is increasing faster?

Can there be much of home life, where we have the amount of multiple occupancy of small or ordinary sized houses that already exists? Where people are crowded three, four or more in sleeping apartments with insufficient light and air, can we expect other results than immodesty, a lowering of moral tone and strangulation of ideals?

Permit me to disclaim any attention of an attempt to produce unreasonable disquiet or alarm, while I, at the same time, submit that we have evidence that the germs of the slum are here, alive, making vigorous efforts at growth and that our present perils call for the attention of every earnest citizen.

The details of this report have been put forward solely as an incentive to some action being taken for the relief of the present congestion.

The discussion at this meeting, for which I have been asked to have it ready will no doubt touch upon, in more or less detail, the different methods which have been adopted elsewhere for the relief of similar conditions and will include such phases as:

1. Municipal Housing for the Working Classes.
2. The work of what perhaps may be called "Charitable Organizations," where wealthy citizens have invested their money, not with the object of securing large interest, but of benefitng their municipality.
3. Rapid transit from the centre to the outlying districts and the decentralization of industries.
4. A proper building or housing By-law with provision for its enforcement.
5. The maintenance of houses in sanitary condition by the supervision of the Health Authorities.

The report, I am glad to say, received immediate attention. A Housing Committee composed of representatives from the Board of Trade, the City Council and various philanthropic associations in the city have been at work for several months devising plans for the relief of the present congestion, the remodelling of our building code, and for stimulating generally, interest in the welfare of our fast increasing population.

During the year about sixty houses and basements were closed on account of insanitary conditions of a serious character.

Our housing accommodation being altogether inadequate for the demand, we feel that a drastic wholesale condemnation of all premises lacking in some essential features of sanitation would be inadvisable at the present time.

Dairy Inspection.

Chas. V. Shain, D.V.S. Dairy Inspector.

With reference to dairy inspection it is the aim of the Department to have an inspector visit each dairy farm twice in the year. A score card system of inspection is used, each dairy being classed as good, fair or poor. A dairy scoring less than 40% is given time to make necessary improvements; if these are not made within the required time, license is cancelled. Dairymen are given copy of score card and told what to do and how to do it in order to make a better score.

This system of inspection creates a friendly rivalry among neighboring farmers and thus conditions over a wide area rapidly improve.

There has been of late a decided betterment in the cleaning and grooming of cows; stables are whitewashed; lighting and ventilation have received special attention.

Within the city limits many new dairies have been built having separate rooms for washing and bottling. New refrigerators have been installed and the old foul smelling, insanitary vats done away with.

The bottled milk trade is increasing and from a clean milk standpoint is much to be preferred. We have three large receiving depots where the milk is clarified, pasteurized, immediately cooled to 45 F. and kept at this temperature until delivered Two of the firms have adopted commercial pasteurization, the other uses a holding device.

The department uses a sediment test. Milk showing an excessive amount of dirt is condemned as unfit for use and prevented from being sold.

Laboratory Report.

Dr. B. F. Bowman, Director.

I have the honor to present the following report of Public Health Examinations made in the City Laboratories of Pathology and public Health for the year ending October 31st, 1912.

I was appointed City Bacteriologist and Pathologist September 1st, 1912. The report therefore covers ten months, during which Dr. Fidlar directed the laboratory and two months since I have had charge.

Last year Dr. Fidlar established nine depots in drug stores in different parts of the city where physicians can obtain typhoid, tuberculosis or diphtheria outfits. These are supplied from the city laboratory and have been a great convenience to physicians located in these different districts.

The city water has been examined daily bacteriologically, and reference to the table will show the average counts for the different months of the year.

Samples of ice from the different ice dealers in the city were examined bacteriologically to eliminate the possibility of sewage contamination.

A brief analysis of the examinations made during the year and their monthly distribution will be found in the following tables; also a comparison of the number of examinations made last year and this year.

EXAMINATION OF BLOOD FOR AGGLUTINATION REACTION OF TYPHOID FEVER,

Month.	Positive.	Suspicious.	Negative.	Total.
1911				
November	10	0	4	14.
December	5	0	15	20.
1912				
January	4	0	11	15.
February	2	2	10	14.
March	1	0	10	11.
April	4	0	15	19.
May	1	0	12	13.
June	1	0	7	8.
July	1	0	5	6.
August	7	2	16	25.
September	8	2	23	33.
October	4	3	24	31.
	48	9	152	209.

Total Examinations, 209.

EXAMINATIONS FOR DIPHTHERIA BACILLI.

Month.	For Diagnosis.			For Release,			Total.
	Pos.	Neg.	Sus.	Pos.	Neg.	Un-classified.	
1911							
November	16	42	5	47	25	0	135.
December	23	101	2	50	84	0	260.
1912							
January	38	232	17	121	105	8	521.
February	16	107	7	62	128	4	324.
March	15	198	15	6	51	10	295.
April	11	189	10	17	59	8	294.
May	26	205	19	6	60	7	323.
June	16	78	10	.....	24	.....	124.
July	7	111	3	3	45	2	171.
August	8	53	2	3	42	4	112.
September	7	47	5	14	20	4	100.
October	30	86	5	13	42	2	178.
	213.	1,449	90	253	785	49	2,839.

Total, 2,839.

DAILY EXAMINATION OF CITY WATER,

Month.	Average Bacterial count.	B. Coli present.	Chlorine.
1911			
November	17.7	——	11 to 11.5
December	5.7	——	10 " 11.5
1912			
January	7.4	——	9.5 to 10.5
February	21.8	——	10 " 10.5
March	39.3	——	10–
April	15.2	——	10 to 10.5
May	10.7	——	10.
June	24.5	——	10.
July	28	——	10.2
August	34.4	——	10.
September	39.3	——	10.
October	38.7	——	10.5

EXAMINATIONS OF SPUTA FOR TUBERCLE BACILLI.

Month.	Positive.	Negative.	Total
1911			
November	15	28	43
December	13	56	69
1912			
January	13	34	47
February	12	36	48
March	5	50	55
April	12	39	51
May	7	31	48
June	8	24	32
July	24	34	58
August	18	26	44
September	3	24	27
October	11	45	56
	141.	427.	568.

Total, 568.

LABORATORY EXAMINATIONS.

——	1910–1911	1911–1912
Diphtheria	985	2,839.
Sputum for Tubercle Bacilli	324	568.
Widal reaction	200	209.
Water examination	43	350.
Totals	1,552.	3,956.

LONDON.

DR. T. V. HUTCHINSON, M.O.H.

I submit the following brief report for the year ending November 15th. I am pleased to state that the health of the city has been very satisfactory; indeed, never better. There were only five deaths from acute infectious diseases. Exclusive of 29 still births, there were 714 deaths from all causes, of which many came from outside places to avail themselves of our hospitals, their deaths being recorded with those of the city.

For many years, up to 1910, consumption caused the largest number of deaths, occasionally as high as 60 per annum, but it has this year fallen back to third place. In 1909, 40 deaths were due to this disease; in 1910, 42; in 1911, 45. This year the deaths are only 37, which is very encouraging. Consumption is now a notifiable disease, and whenever a case is known to occur, upon removal or death the dwelling is promptly and thoroughly disinfected by the Health Department, the same as after scarlet fever or diphtheria. In addition to consumption, measles, whooping-cough, chicken-pox and mumps have also recently been made notifiable diseases.

For the last three years, pneumonia has had the largest death rate, the annual number being nearly the same. In 1910 there were 54 deaths; in 1911, 53, and this year 50.

Cancer caused the deaths of 42 persons, compared with 33 in 1911. The mortality from this disease is annually increasing, not only in this city but in the whole Province of Ontario.

Twenty-four violent deaths occurred, such as drowning, poisoning, railway accidents, etc.

There were only 6 deaths from typhoid fever, one less than last year. Twelve cases were attended at Victoria Hospital, and of the deaths, one contracted the disease in another municipality. It is very difficult to get reports of this disease, physicians waiting until a positive diagnosis can be made. The small number of deaths due to this disease shows our milk and water to be free from typhoid germs, and also that the city is in fairly good sanitary condition. Much good can be accomplished by reporting all cases, not necessarily for placarding the dwellings, but in order to prevent its spread to susceptible persons by contact, by milk, water, or the disease-carrying house-fly.

Of acute infectious diseases, I am pleased to state, we have had comparatively few cases. There were 40 cases of scarlet fever reported, with but 2 deaths. Twenty-two cases of diphtheria were reported, but of this number 8 proved to be nothing more than ordinary sore throat. Of the 16 genuine cases, there were 2 deaths.

There was one death from whooping cough. During November, printed, stamped postcards were sent to all the physicians in the city, requesting them to give the number of cases under their care upon the postcards and return them to this office. Seventy-one cases were reported. In my inspection of the public and separate schools during October and November, 51 pupils were said to be absent from school on account of whooping-cough. The disease was of a mild form and is now dying out.

Although smallpox has been in some of the neighboring towns and cities, it has not visited London for two years.

Very few children have been vaccinated during the year, partly due to the crusade made two or three years ago against vaccination, and also to the action of the School Board in annulling their regulation which required vaccination before attending the public schools.

An incinerator is at last being built for the destruction of garbage and dead animals. This has long been needed, and will be a great help in keeping the city sanitary.

A public abattoir or slaughter-house where animals could be inspected before and after killing would be a long step in the right direction. It is almost impossible to detect diseased meat after it is dressed, and inspection by a veterinary inspector both before and after killing is the only safe way. A fee of ten to twenty cents for each animal inspected would make the abattoir self-supporting, and the inspector's stamp would assure the public of the meat being free from disease.

Four loads of potatoes, one of fruit, one of pork and two of beef were condemned and ordered out of the city. It is hoped that the proposed by-law for the protection of goods exposed for sale, from the contamination of dust, flies and dogs, will pass the City Council. This by-law was recommended by the Board, and is in force in Toronto, Buffalo and other cities.

The sanitary condition of the city is improving year by year, which is proven by the small number of deaths from typhoid fever during the past three years. The invasion of a host of Polacks, Russians and Syrians into the south-east quarter of the city does not improve the sanitary condition of that district. They rent small dwellings

and into them crowd as large a number as possible, as many as twelve men being found sleeping in their working underclothes in one small bedroom. In some of these bedrooms the air space per man was as low as a hundred and twenty cubic feet, and some were even found sleeping on the ground in hen houses with the fowls. Numbers were prosecuted in the police court by the Health Department, and this may prove not only a kindness to the neighbors but to these unwashed foreigners as well.

The veterinary report upon the condition of herds and dairies supplying the city shows a marked improvement. The autumn report cannot be completed before the end of December. One hundred and forty herds have been inspected, 20 visited the second time, in which I accompanied the Veterinary Inspector. Fifteen of these were cut off until such time as they complied with the regulations of the Board of Health.

The herds supplying Victoria and St. Joseph's Hospitals were tested with tuberculin for tuberculosis. There were 60 in number, with 4 reactions. This is not a bad percentage.

The shortage of food and straw was in great measure the cause of the poor condition of many herds last spring. That improvement has taken place is evident by the fact that only two herds have been reported unfit thus far.

The Winter Cattle Fair held at the Agricultural Farm in Guelph next week should be attended by our Veterinary Inspector, as much useful information can be obtained. He is quite willing to go.

During the year I have made periodical inspections of the public and separate schools of the city. Whooping-cough has been quite prevalent for the last three months, but it has been of a mild form. Some children were found with slight skin diseases, but all got well under the care of Miss Gilchrist, the visiting nurse, whom I cannot praise too highly for the excellent work she is doing.

Taking the population of the city at the lowest estimate, 50,000, the mortality rate is a fraction over fourteen in the thousand.

S. Baker, Secretary L. B. H.

I beg to submit the Secretary's report of the Board of Health for the year 1912.

The principal matters considered by your Board during the year were that of Carling's Creek, the removal of the nuisance at Hyman's Tannery, the erection of an incinerator, making the dumps of the city as sanitary as possible, improvements to the sanitary arrangement of the Market House, preparation of a milk by-law and food by-law, and the prevention of insanitary crowding of houses by foreigners.

Your Board also made arrangements for better house connection with sewers, and the construction of a number of sanitary sewers.

Mr. James Lutman has been appointed as Sanitary Inspector, under the sole control of the Board of Health.

Your Board held fifteen meetings, and the attendance of the members was as follows: Dr. Williams 14, Dr. Burdon 14, H. Clarke 12, W. N. Manning 10, W. H. Abbott 13, R. A. Carrothers 11, and Mayor Graham 3.

I beg to submit a report for the Board of Health for the year 1912.

Carling's Creek.—This creek has received more than the usual amount of attention by this Board. Many complaints were received from ratepayers, claiming that the creek was a nuisance. It is understood that the Council of the Corporation of the City of London has under consideration a storm water system which will, it is hoped, remove all cause for complaint.

Reports.—Your Board adopted an improved form and system of reports for the use of the Medical Officer of Health and the Sanitary Inspector which, it is expected, will make the reports more serviceable.

Garbage.—Your Board conferred with No. 2 Committee on the question of a garbage system, and recommended to the Council Maitland Street as a site for the incinerator. It is understood that the Council has proceeded with the erection of the incinerator at the foot of Waterloo Street and that the structure will be completed next month.

Dumps.—Your Board caused an inspection to be made of each public dump in the city, and recommended to the Council that certain locations be set aside as a public dump in each part of the city and that supervision should be exercised by the Board of Works over them. The report of the Sanitary Inspector shows that the nuisances have been abated, and that the system is giving as fair satisfaction as is possible under the conditions.

Market House.—Your Board complained of the insanitary condition of the market house and recommended that the Council take action to remedy the defects. No. 3

Committee has made a number of changes which will, it is hoped, satisfy the demands of this Board.

Sewers.—Under the Local Improvement Act the Council requires the recommendation of the Board of Health before they have power to pass a by-law authorizing the construction of a sewer without the consent of the ratepayers. This appears to be a wise regulation. Your Board recommended that the city by-law be amended to provide that where there is a common sewer one hundred and fifty feet from the street line that the Board shall have power to compel owners to make sewer connections. The Sanitary Inspector has submitted a report showing where these connections are not yet made, and the matter is receiving the further consideration of the Board.

Sewers were ordered to be laid on Riverview Avenue, Wharncliffe Road, Elias Street, Chesley Avenue, College Avenue, and Ridout Street.

Sanitary Inspection.—Mr. James Lutman has been taken over as the Sanitary Inspector of the Board of Health and is now under the control of this Board. It has been found that, with the assistance of a few men for a comparatively short time, he has been able to supervise the backyard inspections, and his report shows that the condition of the city is very satisfactory.

Water Inspection.—Your Board has not received many reports as to the condition of the city water, but it is understood that the Water Commissioners have, from time to time, received reports from Dr. Amyot declaring the city water to be absolutely pure.

Hyman's Tannery.—For many years Hyman's Tannery has been the cause of many complaints from residents in the neighborhood. Your Board took this matter up with the Provincial Board and Mr. C. S. Hyman and, with the assistance of the City Engineer and the co-operation of the Hyman Tannery people, a satisfactory arrangement has been made, whereby the nuisance has been removed and direct connection made with the city sewers.

Milk By-law.—Your Board gave considerable attention to the revision and amendment of the city Milk By-law. The regulations for Toronto, Ottawa and Hamilton were carefully examined, and a new by-law has been adopted, on the recommendation of the Board of Health, by the City Council. This by-law is now under consideration by the Minister of Agriculture and, it is hoped, will shortly receive his approval.

Maternity Homes.—The attention of your Board has been called to the existence of a number of maternity homes in this city. The Medical Officer of Health reports them to be in a satisfactory condition.

Food By-law.—The question of the proper protection of food exposed for sale is a serious problem. Your Board, last year, recommended the Council to pass a by-law governing food exposed for sale, but their recommendation was not sustained by the Council. This year again a similar representation has been made to the Council and a by-law is now under consideration.

Crowded Houses.—The attention of the Board has been called to the fact that, in the southern portion of the city, there are a number of houses occupied by foreigners which are in a most insanitary condition. The Medical officer of Health was instructed to inspect and report on these premises, and action has been taken to close them and to prevent a recurrence of these conditions.

Officers.—I take this opportunity of thanking my colleagues for their attendance and interest in the work of the Board and to the officers for their attention and zeal in the discharge of their duties.

PETERBOROUGH.

DR. A. W. MCPHERSON, M.O.H.

I beg leave to present a report for the year 1912.

I am glad to be able to state that conditions are considerably improved over 1911. We have been fortunate in our freedom from any epidemics and particularly free from the major infectious diseases. The following report shows the number of cases reported on, with the number of deaths:

Disease.	Number Reported.	Deaths.
Scarlet Fever	32	..
Diphtheria	..	..
Smallpox	..	..
Measles	..	..
Whooping-cough	1	1
Typhoid Fever	6	1
Tuberculosis	65	26

The typhoid cases were enquired into. Three of them were from one family and gave a history of exposure to typhoid from out of town. One was from well water and two were from unknown sources. The patient who developed it from the well water died.

The number of tubercular cases is large, but this is due to the fact that the medical men are reporting in both the old and the recent infections, in accordance with the new regulations and as a result of the work of the Health Association.

In this connection I might say that we are pleased to know that the citizens are awakened to the need of taking steps to check this plague and can now boast of an active organization, with a district nurse. The aims of the Association are the same as those of the Board of Health, and therefore they should have your hearty support.

It is gratifying to note that we have had no smallpox or diphtheria and but one death from any of the major infectious diseases, tuberculosis excepted. There is a lesson to be learned from the deaths from whooping-cough and measles. These cases are not reported on as the law requires, and until they are placarded they will not be reported on and the general public will not be protected against them.

Another point that is worthy of note is the use that is being made of the Isolation Hospital. We had scarlet fever in 25 families, many of them with a number of children. In 18 of these the patient was sent to the hospital and in only two cases did a second case occur, and in these it was unavoidable. The remaining seven were kept at home. In two of these cases there was but the one child. In one case where there were two children the other was removed and kept under observation for ten days, and in three of the remaining four cases a further infection developed, making six new cases.

One of the important advances made this year was the establishment of a garbage system in the central part of the city. Considerable trouble was experienced in getting it under way, but now it is working satisfactorily. Next year we expect to have an incinerator for consumption of the garbage and hope to extend the system to the city limits.

Another step forward was the passage of a milk by-law, based on the recommendations of the Ontario Milk Commission. This provides for the licensing of the producers and vendors of milk offered for sale in the city, states under what conditions sanitary and otherwise the milk is to be produced and delivered, fixes the minimum standard of butterfat at 3 per cent., and provides for the inspection and grading of all dairies supplying milk to the city.

As this is the first year of the by-law the inspections were made with a view of familiarizing the producers with the requirements and pointing out how these may best be obtained. So far this year 28 dairies have been visited, and marks apportioned according to conditions found. Next year it is the intention to inspect all the dairies and grade them and to publish the names of all those who fail to come up to the standard. By this method we hope to get a purer supply of milk than in the past. During the year about 200 samples of milk from the milk vendors were examined for butterfat. In only a few cases did the sample test fall below 3 per cent. Where this is found, the milk vendor is notified that the test showed below standard and further samples are secured at later dates from the same vendor. To assist us in making a test for gross dirt in the milk, we are getting a milk strainer by means of which we can get an accurate idea of the cleanliness with which the milk is produced. The greatest handicap in the oversight over the milk supply is the large number of producers and vendors, the latter alone numbering over fifty.

The sanitary work proper forms a large part of our duties. This year we were able to do it more thoroughly, owing to the appointment of a Sanitary Inspector. We attempted to make a systematic examination of all premises, noting the condition of cleanliness both inside and outside the buildings, the fitness of the house as a dwelling, the facilities for disposal of sewage and kitchen refuse, the water supply, the animals kept on the premises and any other points that might have a bearing on the health of the occupants or of the people in the neighborhood. This has been done as far as time would permit and a record made in each case. With your permission, we will have a book made for this purpose and enter these details for future reference.

The conditions found in many places were far from what we desire. The wells are not cleaned out every year, the old privy pits are still in evidence, dirty stables and stable yards, pig pens, chicken coops, open manure heaps, are found all over the city. In a number of instances we had to use the police court as a last resort to compel proper conditions. The following report of the sanitary inspection will give an idea of the work done:

Inspection of houses and premises	3,865
Notices for abatement of nuisances	342
Complaints investigated	92
Manure heaps enclosed	86
Dairy farms inspected	28
Police court cases	22

In addition to this all laundries, bakeries and restaurants have been systematically inspected from time to time. The market has been visited every Saturday morning. Here conditions have been found that should be remedied, and it is our intention to draw up regulations for the market for your approval.

Since last year the Provincial Health Act has been revised. Several points are worthy of notice:

1. The number of members of the Local Board of Health has been reduced from seven to five, one of whom is the Medical Officer of Health.
2. The Isolation Hospital is placed under the control and direction of the Local Board.
3. The Medical Officer of Health is given the power to placard a house as being unfit for human habitation.
4. The duty of deciding what constitutes a nuisance is left to the Medical Officer of Health.
5. The municipality is given power to establish an abattoir wherein animals may be slaughtered under competent inspection.

Before closing I would like to make a few recommendations for your consideration:

1. That the Council be asked to pass a by-law giving the Local Board power to compel sewer connection being made where there is a sewer on the street.
2. That licenses be not issued to milk producers or vendors, to hotels, restaurants, boarding-houses or scavengers, without referring the same to the health authorities for approval.
3. That a notice of all building permits issued be given to the health authorities so that supervision may be exercised over the sanitary arrangements.
4. That a set of market regulations be drawn up, printed and posted in appropriate places.
5. That notices warning people not to spit in a public place be printed and posted, and that the police be asked to enforce the by-law.
6. That a smallpox hospital be built.

STRATFORD.

DR. J. A. ROBERTSON, M.O.H.

In presenting the annual report of the Health department of the city for the year ending October 31, 1912, I have much pleasure in congratulating you on the favorable and healthy condition of our city during the past year.

The total number of deaths from all causes was 146, and basing report as per assessor's returns of the population of the city, gives us a mortuary rate of 9.48 per thousand. This is the lowest percentage of deaths we have had for years, and one of the lowest reported in the province.

In looking over the ages at the time of death, I find that there were: Premature and still births, 25, deaths under one year 15, deaths from one year to five years 7, deaths form five to ten years, none, deaths from ten to twenty years 2, deaths from twenty to thirty years 13, deaths from thirty to forty years 9, deaths from forty to fifty years 10, deaths from fifty to sixty years 13, deaths from sixty to seventy years 18, deaths form seventy to eighty years, 18, deaths from eighty to ninety years 15, deaths from ninety to one hundred years 1. In all 146.

Deducting the premature and still births from our death rate, the percentage per thousand would be considerably less.

CONTAGIOUS DISEASE.

I am pleased to report that the number of contagious diseases was a decided decrease over previous years.

Diphtheria—During the past year there were reported in all 12 cases with no deaths; nine of these cases were treated in the diphtheria hospital with good and satisfactory results.

Scarlet Fever—There were in all 15 cases reported with one death, a decrease of five over the previous year.

Typhoid Fever—There were 15 cases with two deaths, a decrease from last year, there being 41 cases reported with three deaths during that time.

Consumption—Again seems to be about the head of the list, there being 15 deaths from that cause. It is to be hoped that the experiments which Dr. Alexis Carol, a member of the staff of the Rockefeller Institute of Medical research, which is now demonstrating to the world as a curative of that much dreaded disease, may prove successful. I wish to state that all cases of tuberculosis where diagnosed as such, must be reported at once by the physician in attendanec to the Medical Health Officer, not for isolation, but for the same to be reported to the secretary of the Provincial Board of Health.

Milk Supply Satisfactory.

Milk Supply—Our milk supply is on the whole satisfactory. Inspections of the premises of the vendors have been made and I am pleased to state that attempts have been made to comply with the recent Provincial Act, yet there are many conditions which might be improved. In future a score card will be submitted to each vendor basing his conditions of supply on the character of the herd as to considered freedom from tuberculosis, the cleanliness of the byres, the purity of the water supply for drinking and for washing of utensils used for milking, the keeping of the proper temperature as per Government requirements as per By-law enacted, when delivered to the consumer. The technique of the milkers, as to cleanlization of the udders and personal dressing, while the milking will receive the proper attention. A certain percentage will be given for the above requirements during the year and only those who will receive the minimum of 75 per cent. will receive certificates.

I would like to add a few words of advice to our citizens relative to the milk supply. The milkman from our experience is not always to blame. The householders are not always careful in the handling of milk. They do not on the reception from the vendor, place it in a refrigerator, ice-box or cellar and keep it at a temperature not exceeding 50 degrees. They often leave it in the kitchen uncovered and exposed to flies; often it is openly exposed in a room where people are ill; frequently the pitcher is never washed from the time of reception until the receiving of the milk again and the milkman is blamed for causing gastric and intestinal trouble to the young babe. Householders should consider this matter carefully and act accordingly.

Scavenging—For years I have been urging upon the Council the necessity of having some system of garbage collection and disposal carried out. Two years ago the ratepayers were promised by the Council to have this matter considered and completed, but as yet no report has been forthcoming from the committee who had this matter in charge. Our City has got to that size when such is absolutely necessary for the protection of the health of the citizens, and the ratepayers are getting tired of the dilly-dallying regarding this matter. By-laws of minor importance seem to receive consideration and support. Let some "Cromwell' arise and press this important and necessary requirement and put life into "dead bones" and his municipal success will be assured. The public are waiting results. The health of the citizens is paramount to convenience.

Slaughter Houses—These are in as good a condition as can be expected under the circumstances, although there is great room for improvement. In them there seems to be no system of drainage and a woeful want of necessary equipment. I have for years been advocating the establishment of a public abattoir with cold storage where all animals would be inspected before being slaughtered and carcasses inspected by a competent inspector appointed by the Government. Last year the Council appointed a committee to investigate, report and act regarding this matter yet nothing has been forthcoming. The City of Berlin is dealing with this matter in a prompt and handsome manner and a lesson to our incoming council should be taken therefrom.

Livery Stables--The Board of Health has framed regulations based upon the City by-law relating to such. Stable manure has undoubtedly been proven to be the breeding place of stable and other flies. The stable fly is, and has been proven to be the carrier and source of infantile paralysis as well as other diseases. Your Board, by resolution passed, is determined to have all stable manure during the coming spring kept in properly covered bins and the windows of the stables, as well as the doors leading into the place where the horses are to be kept, protected by proper screens.

City Water—Our city water as per analysis continues to be free from coli bacilli of typhoid contamination although at times from its insanitary appearance, doubts of its purity present themselves. The commissioners should be alert in their endeavors to avoid such fears.

The recent act respecting the public health—in view of the fact that the sanitary investigation is enlarged from that heretofore, and that it requires a man of practical experience, thoroughly trained in all details of sanitary work, including quarantine,

isolation and disinfection and to thoroughly understand what to do to have proper sanitation of our lanes, cellars, drains, plumbing, restaurants, laundries, lavatories, public streets, food and milk supply, school houses, hotels, and everything pertaining to the public health; to do this would require his almost combined attention for 8 or 10 hours a day. A thoroughly trained and experienced man, such as our present inspector, should receive the remuneration of at least $1000 a year. The risk of danger to himself and family is such that few would care to undertake and our city has now grown to that size that it should satisfactorily remunerate such an officer.

Plumbing—This in future should receive careful attention. The revenue demanded for work done should demand careful and sanitary conditions.

Rabies—Epidemics of this much dreaded disease seem to prevail in different parts of the province. The by-law relating to the quarantine in the city seems to a great extent a dead letter, as dogs are daily seen to be running at large, unprotected and unhurt. Our Chief of Police deserves credit for his active carrying out of the provision of the by-law under adverse conditions.

Food Exposure—Your Board had under consideration the desirability of having a by-law introduced whereby fruits and vegetables exposed for sale should be kept under properly covered receptacles so as to prevent contamination from dust, which is rich in bacteria or other insanitary source dangerous to the consumer, but no decided action was taken thereon. The public desire action as to the carrying out of what they consider a much needed reform. I would strongly impress upon the Board the necessity of urging upon the incoming Council the desirability of carefully considering your suggestions and recommendations relative to the measure presented to you which in your opinion was necessary for the protection of the health of the citizen.

Year after year the report was merely read and passed over without any comment or action thereon. Yours is the most important committee of the Council and apparently receives the least consideration. Any member of the council who may be bold enough to take a firm stand re matters pertaining to the public health, will receive the hearty support of all right thinking ratepayers.

James Trow, Chairman L.B.H.

This board has held nine meetings during the year and I may say that at every meeting the members did the work allotted to them in a business-like and very harmonious way. During the year the junk and pit by-laws were passed, and, as regards the junk dealers, they will all have to move further out from their present locations or stop doing business 1st July next, and according to the Provincial health act all hotels and livery stables are to procure covered bins or boxes in which to place their manure, and we trust that these different parties will live up to the law on or before the 15th day of May next.

I may state here as chairman of the Board, that we cannot too valuably appreciate the services of our Relief Officer and Sanitary Inspector, Mr. Dunseith, for his untiring energy and closeness to his work, as in my mind always on the job, and his salary should be raised during the coming year.

Trusting that all the members who may be fortunate enough to be appointed on said board for the coming year will feel their responsibility and attend regularly at each and every meeting called, as I look upon the Board to be one of the most responsible and highest, when we look after the city's health in general.

Thos. Dunseith, Sanitary Inspector.

In presenting my Annual report I am pleased to be able to state that we have had a very favorable year; the number of cases of contagious diseases being very much less than previous years.

I used every precaution where communicable disease existed, and was extremely careful in cases of Tuberculosis, burning clothing and bedding and having wall paper removed, etc.

The total number of houses, schools and factories disinfected was 113.

As to the sanitary condition of the City there is still room for improvement, owing to our very unsatisfactory methods of garbage removal and disposal. The dumping ground for garbage is very inconvenient, it being so far out, and the road to it almost impassable during the Fall, Winter and Spring months. The garbage wagons are often stuck in the mud and the whole or part of their insanitary loads left on the road which again causes trouble in its removal. We have a competent man caring for the dump. I visit it many times during the year and find his work satisfactory.

I inspected the slaughter houses several times during the year and found their condition fairly improved.

I also frequently inspected the Livery Stables of the City and notified the proprietors as to the By-law recently passed by the City Council. They have not all fully complied with the requirements of the By-law, but promise to make the necessary improvements and erect manure bins with covers.

The owners of outside W. C.'s. in Fire Limit "A" have been notified to make necessary changes to conform with the By-law. Quite a number have made the changes. Others because of unsuitable buildings and limited means have not complied, and I have not steam rollered them but we expect all within Fire limits "A" and "B" to have all outside closets abolished before July 1st, 1913.

I also frequently inspected groceries, bake shops, confectioneries and restaurants and found in the hot weather that many of them were terribly infested with flies. This nuisance could be greatly reduced by more general use of screens in doors and windows and by keeping all food covered from flies and dust. I also inspected Hotel dining rooms and kitchens, and found them all in good sanitary condition and well protected by screens.

I inspected the dairies and found them greatly improved as to sanitary conditions. I granted licenses to 22 of them, giving them the privilege of selling milk in the City. I tested the milk as to butter-fat, solids and water, and found it all up to the standard of the Ontario Act.

Every Saurday I made inspections of meat, butter and other food products brought on to our Market for sale and sometimes found *Inspection* necessary.

Every day I have inspections to make as to sanitary conditions in some part of the City, alleys, lanes, backyards, streets, etc., I must say conditions are improving as people are becoming more alive to the fact that the health of themselves and their nelghbors depends largely on the care they take of their premises, and the proper disposal of all refuse.

I made inspections of the dairies and slaughter houses under the supervision of the Medical Health Officer. We were also in some cases courteously accompanied by the Chairman and other members of the Board of Health. We were indebted to the Medical Officer of Health and the Chairman for the use of their cars on these inspections. I was also accompanied on many of my inspections in the City by the Medical Officer of Health.

ST. CATHARINES.

DR. F. KING, M.O.H.

I beg leave herewith to submit this my report for the year ending Nov. 15th, 1912.

The city has been very fortunate in regard to contagious diseases, there being all told only 45 cases reported, of which 6 resulted fatally. The cases reported were as follows:

Typhoid Fever, 5 cases, and all were from outside the city, having been brought to the hospital; three of these cases resulted in death.

Diphtheria, 5 cases, all recovered.

Scarlet Fever, 19 cases, resulting in two deaths.

Whooping-cough and Measles, 5 cases, all recovered.

Infantile Paralysis, 1 case, with fatal results.

During the year there were 339 births registered, being 50 more than in 1911. Marriages registered, 152, being 4 less than in 1911. Deaths registered, 234, being 22 more than in 1911.

A very large amount of sewers were laid, as follows: 1,000 feet 6-inch, 700 feet 8-inch, 17,480 feet 10-inch, 5,800 feet 12-inch, 890 feet 15-inch, and 58 feet 24-inch; also a trunk sewer in the eastern section, 3,400 feet of 24-inch and 6,850 feet of 20-inch, and also 276 sewer connections were made.

Mr. F. Howse, our late Sanitary Inspector, placarded and fumigated all houses where contagious diseases existed, and attended to his various duties as his health permitted, and our newly appointed Inspector is now fulfilling the duties in a satisfactory manner.

The Isolation Hospital has been a very useful place, and further rooms should be made to make it up to what it should be, as the growth of the city will likely require it oftener in the future than in the past.

All of which is respectfully submitted.

JAS. A. MACMAHON, Chairman Board of Health.

In accordance with Paragraph 3, Schedule B, Section 122, Public Health Act of Ontario, I have the honor to submit my annual report.

Contagious and infectious diseases, 45 cases reported, of which six died. Five of these cases were typhoid, brought to hospital from outside points.

Births, 50 more than in 1911. Total, 339.

Deaths, 22 more than in 1911. Total, 234.

I believe the health and sanitary conditions of this city are equal to any in Ontario.

WINDSOR.

S. Lusted, Secretary Local Board of Health.

As you are doubtless aware, the new Public Health Act (Chapter 58, 2nd George V.), is now operative, and under its provisions Local Boards are materially changed. In cities the Mayor and Medical Officer of Health are ex-officio members, and three ratepayers appointed by the Council at its first meeting annually make up the number that constitutes the Board. Thus the Corporation is practically renewed every year, instead of in sections covering three years as formerly. Another change in the law that affects all municipalities provides for the appointment of District Officers of Health, whose duties partake somewhat of the nature of inspector of Local Boards, clothed with large powers, under the Provincial Board. The incumbent of the office for the district embracing Windsor, Dr. Bentley, has already made several visits to this city, and his activities will in all probability lead up to the improvement of health conditions in this and other portions of the westerly section of the Province that are placed under his supervision.

The work done by the Local Board during the past year has not been characterized by any new features, but has largely been of the "usual round and common task." The excitement that formerly seized the public mind upon the appearance of smallpox in our midst has practically ceased; the people by experience having come to regard the Board's constant preparedness, and the isolation hospital treatment of patients so generally effective, as to remove all ground for apprehension either on the part of the afflicted or the protection of the public from contagion. The number of cases of communicable diseases occurring in the city in the past year, so far as reports to this office afford evidence, is much below the figures of the preceding year. Scarlet fever was reduced from 38 to 26 cases, and diphtheria from 23 to 11, with none fatal. Typhoid, according to public opinion, has prevailed largely over the city, but only *one case was reported*, although *eight certificates of death* from that disease have been brought in and burial permits issued. Why reports are not made as in cases of the other diseases mentioned is beyond our ken, and it is understood Dr. Bentley is giving that matter his especial attention. The cause of this exceptionally dangerous disease is still open to question and is pretty hotly disputed. The water supply is easily blamed, sewage contamination being freely asserted and possibly justified; but other sources are not by any means free from suspicion. In the judgment of many, the milk sold for consumption, far more than the water, introduces the germs of the malady into the human system; and some better statutory provision than any yet made for controlling and ensuring the purity of the milk supply is anxiously awaited. Under the direction of the Chief Officer of Health, Windsor's water is now treated chemically before being pumped through the supply pipes; and the current year will therefore demonstrate beyond question whether or not the water or the milk we use ought to be charged with disseminating the cruel disease.

Garbage collection and cleaning of alleys under the direction of the Public Works Department has been well attended to; but as usual considerable difficulty in the satisfactory discharge of the service is still experienced from the lack of co-operation on the part of householders and property owners. Only when the public realize that the sanitary condition of the alleys is not only a public concern, but a matter of personal, individual interest—when the occupant of a dwelling or store shall come to realize that a littered and pest-breeding alley is more objectionable and dangerous than a dirty pavement—need a thoroughly sanitary condition of these by-ways be hoped for.

An extraordinary state of activity marked the year just past, alike in building construction and the making of pavements and sewers. Windsor has practically abandoned the notion that the city is designed only for a residential suburb of Detroit, and has effectually hung up its shingle as a manufacturing centre, with the result that factories are fairly looming up in nearly every ward, but especially in the second and third. This accession to the wealth and population of the place has involved remarkable activity on the part of the City Council as a whole, and the Public Works Committee particularly; and new pavements and sewers in unequalled number and extent, form the distinguishing feature of the year's history. This rush of progress reflects itself upon every branch of the city's service, not excepting the Board of

Health, the work devolving upon the latter growing the more important and expanding proportionately with the general advancement.

A matter that has been latterly forced upon public notice by an indictment in the County Court, and by an order issued by Dr. Bentley, should have further attention by this Board, namely, the police offices and cells in the City Hall. The health of court officials, as well as of the unfortunates who are committed to the cells, deserves consideration; and you will find in the several plans of amelioration of admittedly bad conditions something the attentive contemplation of which will naturally occupy your minds until a settlement of the question is reached.

Causes of Deaths.

Arterio-sclerosis	30	Injuries	2
Appendicitis	3	Ilecolitis	5
Apoplexy	3	Insanity	1
Angioma	1	Influenza	1
Accidental	8	Lack of Respiratory Act	1
Accidental Drowning	1	Lues	1
Acute Indigestion	2	La Grippe	1
Anaemia	1	Meningitis	8
Alcoholism	1	Mitral Regurgitation	1
Bronchitis	5	Malignant Disease of Pancreas	1
Biliary Colic	1	Marasmus	4
Blood Poisoning	1	Malnutrition	6
Broncho-pneumonia	2	Myocarditis	4
Cerebral Apoplexy	2	Mycosis Fungoides	1
Carcinomatous fibro myoma	2	Natural Decline	1
Cerebral Hemorrhage	4	Natural Causes	2
Contusion at difficult birth	2	Nephritis	4
Concussion of Brain	2	Nonclosure of Foramen Ovale	1
Cardiac Dropsy	3	Obstruction of Bowel	1
Cancer	10	Old Age	2
Cardiac Disease	1	Pneumonia	23
Cystitis	1	Pernicious Anaemia	5
Cholecystitis	1	Premature Birth	11
Cholera Infantum	5	Pernicious Vomiting	1
Chickenpox	1	Peritonitis	2
Childbirth	1	Pyorrhoea Alveolaris	1
Carcinoma	8	Papilloma of Bladder	1
Difficult Birth	1	Puerperal Septicemia	1
Diabetes	3	Phthisis	3
Dysentery	1	Rheumatic Endocarditis	1
Disseminated Sclerosis	1	Rheumatic Fever	1
Degenerated Heart Muscles	1	Rheumatism	1
Enteritis	3	Respiratory and Heart Failure	1
Empyema of Gall Bladder	1	Rheumatic Heart	1
Erysipelas	1	Suppression of Urine	1
Entero Colitis	1	Still-born	14
Ectopic Gestation	1	Senility	2
Epilepsy	1	Senile Atrophy of Brain	1
Embolism	1	Sclerosis of Spinal Cord	1
Fracture of Hip	1	Suffocation Before Birth	1
Fell Dead	1	Senile Decay	5
Fracture of Skull	1	Septicemia	1
Fracture of Cervical Vertebra	1	Suicide	1
General Paresis	1	Spinal Meningitis	1
Gangrene of Feet	1	Tetanus	2
Gunshot Wound	1	Tubercular Adenitis	1
Hemorrhage of Brain	2	Tuberculosis	8
Heart Disease	15	Typhoid Fever	12
Hemorrhagic Monatorum	1	Tumor of Throat	1
Hemophilia	1	Tubercle of Kidneys	1
Hernia of Brain	1	Tubercular Enteritis	1
Heat Apoplexy	1	Uremia	1
Hypertrophy of Prostate	1	Weakness	1
Intestinal Obstruction	3	Whooping-cough	1

WOODSTOCK.

DR. F. S. RUTTAN, M.O.H.

I submit herewith my annual report for the year ending November 15th, 1912.

The number of deaths, exclusive of still-births, for the year was 132, an increase of 9 over the number for 1911, which gives the mortality rate per thousand population of 13.12.

Deaths occurring between the following ages:

	Male.	Female.
Still born	7	5
Premature	3	1
Under 1 week	2	2
From 1 to 5 years	6	5
From 5 to 10 "	3	4
From 10 to 20 "	0	1
From 20 to 30 "	4	2
From 30 to 40 "	7	3
From 40 to 50 "	4	2
From 50 to 60 "	3	8
From 60 to 70 "	8	4
From 70 to 80 "	9	9
From 80 to 90 "	19	12
Frym 90 to 100 "	4	3
	0	3
Total	78	66

From a statistical point of view, it is of interest to note that of eleven deaths among children occurring under one year of age, 81.9 per cent. were artificially fed.

REPORTABLE DISEASES FOR 1912.

Disease.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Total.
Diphtheria	2	....	....	.....	.....	.....	1	.....	.....	....	.....	.....	3
Measles	1	....	....	.....	.....	2	.....	1	1	.....	.....	.....	5
Scarlet Fever	....	....	....	.....	.....	.....	.....	.....	.....	.....	1	2	3
Typhoid	3	....	1	.....	.....	.....	.....	3	1	4	.....	.....	12
Smallpox	....	....	....	.....	.....	8	1	.....	.....	.....	.....	1	10
Totals	6	....	1	.....	.....	10	2	4	2	4	1	3	33

The city has been particularly free of infectious and contagious disease, only 33 cases being reported.

Twelve cases of typhoid fever were reported, of which number of cases seven were from outlying districts. Some of the remaining cases were probably contracted elsewhere than Woodstock.

We have again had our complement of smallpox, and local epidemics will continue to occur so long as vaccination laws are not enforced by provincial authorities.

I congratulate the Board of Health on the interest taken in sanitation.

During the year your Board have drafted the milk by-law to comply with the Provincial Board of Health; have secured a by-law to regulate the delivery and exposure for sale of meat, poultry, game, flesh, fish and fruit; have secured a by-law to abolish outside closets within certain limits, and also succeeded in having the council to assume control, drain and pave two rear lanes.

I have urged upon your Board the necessity of having some system of garbage collection and disposal adopted. At present we are in need of suitable grounds for garbage disposal. I would heartily endorse municipal collection of garbage and disposal of it by incineration.

At an early date the Council will be requested to assume control, drain and pave two other rear lanes which are much in need of attention.

At an early date plumbing by-laws will be submitted for your approval.

Milk Supply.—Dairies were inspected twice during the year by our veterinary inspector and improvements ordered where considered necessary.

We are in need of an isolation hospital for the reception of infectious and contagious diseases other than smallpox.

I would again remind you to take into consideration the desirability of having a public abattoir.

Nine deaths from phthisis should be a sufficient reminder of the necessity of taking some definite action in regard to a tuberculosis sanatorium that patients could be placed under the best possible hygienic conditions.

The city should take the initiative in sanitary reforms, and their opportunities are many.

Sanitary drinking fountains should replace the disease-carrying public drinking cups.

Our lock-up is a disgrace to civilization.

The work of removing privy closets has not proceeded as rapidly as expected; in many cases the contracts are placed, but there is evidently a deficiency of plumbers. I would again recommend the abolishing of all privy closets where sewers are convenient.

In conclusion, I wish to thank the Board for the interest shown during the year, and I regret to record the death of our esteemed chairman, who was a most progressive, energetic and efficient official.

BARRIE.

Dr. A. T. Little, M.O.H.

Contagious diseases reported were as follows:

Scarlet Fever.—In November, 1911, 1 case; in December, 1911, 5 cases; in January, 1912, 6 cases; in February, 1912, 5 cases; in March, 1912, 3 cases; in April, 1912, 4 cases; in May, 1912, 3 cases; in June, 1912, 5 cases. No cases reported since June, 1912. Deaths from scarlet fever, none.

Typhoid Fever.—A complete list cannot be given, as cases are not reported fully. Many of these cases are treated in our hospital. The records of the Royal Victoria Hospital show as follows: For the year 1910, 50 patients treated; in 1911, 26 patients, and for the year 1912, 9 cases. Most of these were out-of-town patients. Deaths from typhoid fever, 2 cases.

Whooping-cough.—No cases reported. Registration shows 2 deaths.

Cerebro-spinal Fever.—Three cases were treated in the Royal Victoria Hospital. Two came from an adjoining municipality. All three were fatal.

Tuberculosis.—Cases not reported. Registration shows 6 deaths.

A great advance has been made from a sanitary point of view by the abolition of the privy pits and in their places the installing of the dry earth system of closets. By this change the danger of contamination of the wells in the outlying districts will be greatly reduced.

The town has to be congratulated upon its work of sewer extension during the year. A great deal of this work was executed upon sanitary grounds and on the recommendation of the Board of Health. In all 79 sewer connections were made. Twenty-seven cesspools were closed in and no new ones were allowed to be constructed. Four permits were granted for the inception of septic tanks.

A census taken by the Sanitary Inspector shows over 1,500 houses. Outside closets in 788, about 50 cesspools. The remaining houses have sewer connections.

Our Sanitary Inspector, Mr. G. Hagart, has been most energetic in his endeavors to give us a clean town, but until we have a proper municipal service for the removal of garbage and other refuse matter we cannot look for great results. The individual cannot be depended on to do this work. Our annual spring cleaning is not sufficient and the deplorable method of dumping the year's accumulation of dirt on the streets, there to await, for days and even weeks, its removal by the town teams, cannot be condemned too strongly.

A weekly collection of such matter would involve only a small additional expense to our people and would give us a clean town throughout the year.

In bringing my report to a close I have to thank the Chairman and the Board for the great assistance they have given me in trying to promote the best interests of the town in sanitary matters. Our inspector has assumed the full responsibility of his office and has done his work in a most satisfactory manner.

GALT.

Dr. T. W. Vardon, M.O.H.

In making my annual report for the year ending November 1st, 1912, am pleased to say that during that time the health and sanitary condition of the town have been satisfactory. In the beginning of the year we had a few cases of scarlet fever and diphtheria together, with only six cases of typhoid fever. The origin of nearly all these cases has been traced to outside causes. You will see by the attached report of the Division Registrar that there have been 160 deaths and 223 births. Seventy-seven of those who died were over fifty years of age, of this number two were over ninety years, eighteen between eighty and ninety, nineteen between seventy and eighty, fourteen between sixty and seventy, and the remaining between fifty and sixty. The number of children who died in their first year was 24. Deducting the number of still-born and those who died in the hospital from outside places, from the total number of deaths, makes the death rate a little over thirteen per thousand of our population, while the birth rate is twenty-three. This I think is a good showing, as over one-half of all those who died were over the half-century mark.

The collection and disposal of garbage is a vexed question in all towns and cities. The present Council has already adopted the principle of placing in next year's estimates the sum of $2,500 to carry on this work, and there can be no doubt but a proper system will be installed and operated in the near future. The ideal system, that of installing and operating an incinerator plant, is too expensive for places the size of Galt. In the meantime we will have to be content to secure proper places for the disposal of the garbage which will not be a nuisance to anyone.

The Swiss Cottage has been opened on four different occasions, viz., for the treatment of the following diseases—twice for scarlet fever, once for diphtheria, and once for smallpox. In this connection I would recommend that the present building be divided by a solid partition, the one side to be used for the treatment of scarlet fever and the other for the treatment of diphtheria patients, that the outbuilding be moved to the bottom of the hill and used for smallpox patients, also that a tight board fence be built around the latter. If this is carried out it will provide hospital treatment for all these infectious diseases at a small cost.

I would again recommend the Council to pass a by-law closing all outside closets and cesspools on lines of sewers, giving those who live on those streets a reasonable time to connect therewith.

As you are aware, important amendments were made to the Health Act at the last session of the Provincial Legislature, giving the Boards of Health greater powers than before, also reducing the number of members on the Board. In towns of our size the Board will consist of three members appointed by the Council, the Mayor and the Medical Health Officer.

A money value cannot be placed on human life. Who could calculate the value to the world of such men as a Dr. Jenner, who discovered vaccination for smallpox, or of Harvey, who discovered the circulation of the blood, or of Lord Lister, who brought into use aseptic surgery, or such men as Pasteur or Koch, who brought into use the antitoxines which have proved so valuable in the treatment of diphtheria, hydrophobia, tuberculosis and many other diseases, or of the great electric wizards—Edison, Marconi or a Bell. From the humblest walks of life statesmen, poets, inventors, philosophers and rulers of the people have sprung—Burns followed the plough, Lincoln split rails, and the late General Booth rose from the ranks. The lines that medical scientists and others are working along to-day are for advanced methods of hygiene and preventive medicine. So far wonderful results have been obtained from the same; without their aid the Panama Canal could not have been built. The treatment of disease is a secondary consideration—"prevention is better than a cure." The laws governing health and protecting people against disease should be made so perfect that the existence of a nuisance should be made a criminal offence against those who are responsible for it. The Councils and Health Boards are under obligation to the people to supply pure water, to provide proper methods for the disposal of sewage and garbage, also to see that the people are properly housed and that the occupants are compelled where necessary to keep them clean. That all public buildings, such as colleges, schools, churches and municipal buildings be erected on sanitary lines so as to provide plenty of light, pure air and other necessary arrangements that are essential to health. It is said that 55,000,000 children are born in the world every year; 15,000,000 of these die before reaching the age of one year. I think I would be safe in saying that twenty-five per cent .of the remainder are either mentally or physically defective. What are we to do to help this vast army of children? First, it is the duty of the State to see that they are properly cared for. This can only be done by instituting proper and efficient inspection of these children, both at home and in the schools. I

believe the medical inspection of children in all schools should be made compulsory, and I would advise our school boards to adopt the same as soon as possible. The school boards can be of great benefit to the children by establishing forest or out-of-door schools. This has been worked out both in England and Germany, and the schools have proved a great boon and benefit to the children. Toronto and Hamilton have had them in operation during the past summer months and are well satisfied with the results. I would recommend the school board of Galt to establish a forest school for delicate scholars; it can be carried on in one of our parks with but little expense. You may give a child a good education, but if it is physically defective it may be compared to a motor car that has a full supply of gasoline, but whose machinery is out of repair. In this vigorous, hustling world not only is a good education necessary but a strong, healthy body. There never was a time when more was required of the individual than to-day, hence the necessity that our children should have a healthy body and a vigorous mind. It may to many seem premature and that the time has not yet arrived, but with all due deference to those who may think otherwise I believe that laws regulating marriage should be made that all those who are about to enter into marriage ties, before being granted a license, should present a certificate, granted by a proper board of qualified examiners, that they are physically and mentally sound. That the expense of this examination should be borne by the State.

We are now feeling the effects of the high cost of living. All animal foods, such as meats, poultry, fish, eggs, milk, cheese, and butter have increased in price during the last few years from one to two hundred per cent. We would be just as healthy if we ate much less animal food and instead used more cereals, fruits and vegetables. If for one year we, the people in general, would only eat one-quarter of the animal foods we are now using, we would bring the meat barons to time and in the meantime our health would not suffer; on the contrary, in many cases we would be healthier for it.

The appointment of a Sanitary Inspector is a necessity and is compulsory under the new Health Act. This town now requires an inspector to give his full time to sanitary work.

INGERSOLL.

Dr. J. A. Neff, M.O.H.

I beg to submit my report for the year ending November 15th, 1912.

I am pleased to be able to report that the whole year has been very healthy, and that our citizens have escaped epidemics of all kinds, there having been but five cases of communicable diseases reported, viz., four of scarlet fever and one of diphtheria.

There have been ninety-four births and eighty-three deaths reported by the physicians and registered by the town clerk, showing an increase of eleven in population from natural causes during the year. Only five of these deaths were caused by communicable diseases, viz., four by tuberculosis and one by typhoid fever.

I am strongly of the opinion that all cases of communicable diseases of the town have not been reported to the Medical Department.

I trust that all the local physicians will report their cases so that the citizens of the town may be protected from the spread of such diseases according to the Medical Health Act.

At the annual tour of inspection of the Board of Health nearly all the dairies, slaughter-houses and other places visited were found satisfactory, many of them being in splendid condition. Two of the dairies were not up to the requirements. Both these, however, were undergoing repairs, and when completed will meet with the approval of the Board.

The schools are all clean and better kept than they were in past years. The defects in ventilation and lighting in the Central School are still with us. The Board of Education, however, has these under their serious consideration at the present time and will no doubt deal with them. Am pleased to report that the fire escapes of this school have been greatly improved and are now satisfactory.

The ventilation and heating of the Ward School are also receiving the consideration of the Board of Education, and I am hopeful that they will be made adequate and satisfactory. The sanitation of the Collegiate Institute has been greatly improved by the removal of the janitor's family from the basement of that building.

The failure of the by-law to supply a sewerage system for the town is to be deplored. I trust that a system more in accord with the present needs of the town will soon be considered, and that when it is it will receive the support of the citizens at the polls.

I am still of the opinion that the herds furnishing the milk supplied the town should be inspected by a competent veterinary surgeon at least three times a year and that all tubercular animals found should be slaughtered.

ORANGEVILLE.

DR. T. A. CARSON, M.O.H.

During the year 1912 Orangeville has been very free from epidemics or any disease of a communicable nature. During the months of January, February, March and April, whooping-cough was very prevalent; none of the patients were seriously ill and no deaths occurred. As the present Health Act was not in force then, no isolation or quarantine measures were adopted.

We also had several cases of diphtheria about the same time. Those afflicted were living in various parts of the town and no connection could be traced in any case. Rigid quarantine was enforced, every precaution taken with thorough disinfection after recovery and no difficulty was found in stamping out the disease. In this respect we found the Provincial Laboratory of much benefit both in diagnosis and in the examination of release swabs. We had one death.

Only two cases of tuberculosis were reported. Both patients have been supplied with literature, and I believe every precaution has been taken to prevent infection. No cases of typhoid fever, meningitis, or scarlet fever were reported.

For the reporting of communicable diseases, I had the proper cards printed and distributed to the different physicians, and believe in future we will be able to keep track of such diseases in a more thorough and convenient manner.

During the year there have been many complaints regarding the existence of nuisances in different parts of the town. These are nearly all traceable to the fact that the town has no proper method of sewage disposal. A large majority of the so-called "septic-tanks" have the overflow discharging into surface drains, old wells and also merely on the surface of the ground. In many instances closets empty direct into surface drains. Some definite steps must be taken by the municipality in the very near future to establish a sewage system, and I would recommend the Board arrange a meeting with the municipal council to talk the matter over and endeavor to, at least, commence the installation of a system of sewage disposal, which might be added to from time to time, or to have a complete system arranged for as early as possible.

The opening of Lord Dufferin Hospital is a matter of congratulation to the town, and will aid very materially in the care of those requiring hospital treatment and attention.

With Public School Inspector Liddy, I examined the Orangeville Public School very thoroughly and found it in very good condition. The School Board have rearranged the closets, and with the close attention now given them should be in splendid condition. The ventilation in most of the rooms is good, but requires a good deal of attention, as the heating system is not the best for such an institution.

In September I attended the meeting of the Canadian Public Health Association held in Toronto. This phase of educating the different medical health officers and bringing to their attention the various methods of combating disease, sewage disposal and other matters pertaining to the health of the Province, seems to me an excellent one.

In conclusion, I must admit that many of the enactments of the new Provincial Health Act are not properly enforced, but as the different provisions are better understood, the duties of the Medical Health Officer and the Board better defined, and as the position of Medical Health Officer is now permanent, I feel assured no complaint will be found another year.

The following is a report of the health of the town for the year:

	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Scarlet Fever	0	0	0	0	0	0	0	0	0	0	0	0	0
Typhoid Fever	0	0	0	0	0	0	0	0	0	0	0	0	0
Tuberculosis	0	0	0	0	0	0	2	0	0	0	0	0	2
Diphtheria	1	3	2	2	0	0	0	0	0	0	0	0	8
*Whooping Cough .													
Measles	0	0	0	0	0	0	0	0	0	0	0	0	0

* None reported. Prevalent in Jan., Feb. and Mar.

SARNIA.

Dr. A. C. Poussette, M.O.H.

In accordance with instructions contained in Public Health Act, I beg to report as follows:—

I am glad to be able to report that during the past year, 1912, there has been nothing that can be considered an epidemic of an infectious disease in the Town of Sarnia.

The typhoid fever, which had been so prevalent during the latter months of 1911, had gradually become less so, and during the last three months there has not been any reported to me. The last case reported to the local registrar was on September 30th, and there has been none reported in the Sarnia General Hospital since November 9th.

Since January last, samples of water have been sent to Dr. Amyot every week. at first three times a week, latterly once a week. These samples have been taken from the intake pipe which means river water before it has been chlorinated.

I have Dr. Amyot's reports on these samples and no colon bacilli or other harmful bacteria have been found in the water since his report of September 28th, 1912.

During 1912 the Town has been comparatively free from infectious diseases.

Only one case of smallpox of the modified type, eight cases of scarlet fever, mostly in a mild form, and fourteen cases of diphtheria have been reported. At the present time there is no house in Town under quarantine for any infectious disease.

During the year I have been employed portions of 137 days on Board of Health business.

I have made 23 visits to infected houses, and to premises where an insanitary condition was reported to exist.

I have investigated 25 complaints of nuisances, and where they were found to exist had them abated.

I have attended 9 meetings of the Board and members of the Provincial Board.

I have twice attended at the Police Court in trials connected with nuisances.

I have written and received several letters on Board of Health business principally from the Provincial Board.

On the 26th of August I examined and tested 17 samples of milk collected from the vendors supplying the town and the result was fairly satisfactory.

SAULT STE. MARIE, ONT.

Dr. A. S. McCaig, M.O.H.

I beg to submit my report of the sanitary condition of the City of Sault Ste. Marie for the year 1912.

Vital Statistics.

Births	247
Deaths	246
Marriages	192

Infectious Diseases.

1. *Typhoid Fever.* During the year there have been 53 cases of this disease. Of these probably 25 originated in the city. Last year there were 125 cases with 40 from the city. There were 11 deaths from this disease.

2. *Scarlet Fever.* 4 case, no deaths.

3. *Measles.* This disease was prevalent during the first half of the year. Seven deaths resulted from measles or its complications. It is now compulsory to isolate patients suffering from measles, and houses in which the disease occurs must be placarded.

4. *Whooping Cough.* A few case at present in the city.

5. *Tuberculosis.* This disease still maintains its lead of all the infectious diseases. There were 21 registrations of death from tuberculosis of all kinds during the year. All the deaths from this disease were not from the City, as a number of deaths which occurred on the Garden River Indian Reserve were registered here.

6. *Diphtheria.* This has been the plague of the year. There have been 97 cases of the disease with 9 deaths. In my reports for the past two years I have urged the necessity of an isolation hospital for the care of cases of the infectious diseases. You cannot appreciate the worry we have had in trying to provide accommodation for cases of infectious diseases that have occurred in boarding houses, hotels, banks, etc., and

I would especially thank His Worship, The Mayor, for his cordial assistance and support during the past year. I am pleased to know that it is to be to the credit of your present honorable body that steps are now being taken to provide an isolation hospital for the city. I would like to advise that now the matter is assuming definite shape that a thoroughly up-to-date building be erected and not some old patched up concern in which the public will have no confidence and of which Health Officers and everyone else will be ashamed.

We must have a place with which no objections as to the location, construction or management can be found. The majority of infectious diseases occurs in children and parents will not permit and physicians will not advise their removal to an isolation hospital which is not thoroughly up-to-date and in which the public and physicians alike have not every confidence.

Acting under instructions from the Board of Health I have recently impressed into the service of the Board as a temporary Isolation Hospital, No. 119 Pilgrim Street. This building is serving our purposes admirably and we have at present 7 patients in the hospital.

There seems to be a very strong prejudice on the part of most people to having an isolation hospital within forty rods of them. This prejudice is founded on the assumption that there is danger from contagion from the hospital to inmates in houses nearby. It has been proven that danger in this way does not exist, that the contagion is confined to a very limited area about the patient and that the danger is only to those who come into immediate contact with the patient. If the doctors and nurses who are attending the patients take precautions against taking the disease themselves, there is very little danger of either carrying the disease to anyone else. It is also a fact that infectious diseases are not more prevalent in the neighborhood of the isolation hospitals in cities than in the parts more remote from the hospitals.

There also seems to be a popular repugnance to the names isolation hospital and especially pest house (with which I sympathise), which has survived from the days when the poor victim of plague or smallpox was thrown into some vile den to die, neglected and alone.

There is also another objection to the location of an isolation hospital in certain districts, and that is that it depreciates the value of adjoining property. This objection seems to be especially strong in this city where so many are interested in real estate speculations, large and small, and it would also seem that the ones who have the least invested are the ones who are able to make the loudest noise in opposition.

It is right, however, that all these objections should have due consideration in selecting a site for the hospital, but at the same time it must not be forgotten that the main purpose is to protect the public health by providing a modern institution for the care of those who are suffering from infectious diseases.

Dr. R. E. Wodehouse, District Health Officer of the Provincial Board of Health, visited the city recently to investigate the cause of the prevalence of diphtheria. After a thorough investigation of all the circumstances in connection with the outbreak, he gave the following reasons for the continuance of the disease:

1. Missed cases or cases in which the disease was so mild that no medical treatment was obtained, no measures of isolation or disinfection were taken, the child returned to school or mingled with the public, still carrying the contagion, and in this way other people were infected.
2. No adequate means provided by the city for isolating the cases.
3. Not a sufficiently long and rigid quarantine by the Health Officers of houses where the disease occurred.

It is the duty (as provided by the Public Health Act) of every householder if he knows or suspects the existence of a communicable disease in his household to give notice thereof, within 12 hours, to the Secretary of the Board of Health or the Medical Officer of Health.

It is the duty of the city to provide a thoroughly up-to-date isolation hospital.

It is the duty of the Medical Officer of Health to enforce in a fair and fearless manner the Regulations of the Provincial Board of Health regarding communicable diseases.

Now, if all cases are promptly reported, if an isolation hospital is provided, and if people observe, or be made to observe a strict quarantine, the disease will soon be stamped out.

Quarantine seems to procure in some people a peculiar perversion of their sense of responsibility. They resent the restrictions placed upon them when denied their liberty for the protection of others. They would be horror-stricken if you suggested that they would give their neighbor's child a dose of poison, yet they are willing to expose it to the deadly poison of an infectious disease.

A mad dog in the street would create a panic. The last report of the Registrar General does not report a single death from hydrophobia in the whole Province of Ontario, yet here in Sault Ste. Marie we had nine deaths from diphtheria during the year,

and there are people in the city ignorant enough to not believe that it is diphtheria, and others malicious enough to ignore precautions against the spread of the disease.

The by-law to raise money for the building of an incinerator should be strongly supported. The disposal of garbage has been a difficult and expensive work, and with which the Board of Health has had to deal. I think when the incinerator is built it would be well to consider the advisability of placing the collection of garbage in charge of the sanitary committee of the Board of Works, and have the work done in the same manner as the street cleaning. The sanitary inspector has already too much to do, and if he were relieved of the oversight of the collection of garbage, he could devote his time more freely to the inspection of dairies, shops, restaurants, boarding houses, etc., and be able to give more thorough attention to the various duties imposed upon him by the Public Health Act.

Dairies and Milk Supply.

The dairies were inspected by the sanitary inspector and members of the Board of Health. A great improvement has been made in the condition of the stables and in cleaner methods of handling milk. Milk tests were made regularly.

Slaughter Houses and Butcher Shops.

The butcher shops have been kept in a clean and sanitary condition during the year. The meat supply has been good. We need a public abattoir where animals can be inspected before being slaughtered and where carcasses can also be properly examined. We have men in the meat business in the city who are ready to invest their money in an abattoir as soon as permission is given them to build one. It can be built by private capital and still be under municipal control.

The Board of Health.

This has been an active organization during the year and has done good work in guarding the public health.

The Ontario Health Exhibit of the Provincial Board of Health was exhibited in the city this summer. The Exhibit is sent to various parts of the Province as a means of educating the public in matters pretaining to the public health. In addition to the regular features of the Exhibit, lectures were delivered by the doctors of the city on various health topics.

During the year the Board held thirteen meetings which were attended by the members as follows:

J. Huston, Chairman, 13; R. Brydges, 13; W. H. Harper, 11; W. H. Ewing, 11; S. W. Fawcett, 11; W. R. Cunningham, 6; His Worship, 4; Medical Health Officer, 12.

The local Board of Health will require reorganization at the beginning of the New Year, to conform to the provisions of the new Public Health Act.

This new Act, which has been in force since April, imposes very arduous duties upon the Medical Officer of Health. He is the executive officer of the local Board and is responsible for the carrying out of any regulations it may make, and also those of the Provincial Board and the health by-laws of the municipality. This means that the whole health work falls upon the Medical Officer of Health, and in this city it is no small matter to attend to.

More work means more salary and with report I am also presenting my account for services for 1912.

REGULATIONS

OF THE

Provincial Board of Health

ONTARIO

APPROVED BY THE LIEUTENANT-GOVERNOR IN COUNCIL,
ON THE 10th DAY OF AUGUST, 1912

Table Showing Period of Quarantine and Date of Return to School, according to Section 72 of the Public Health Act.

Disease.	Quarantine required after last exposure to infection.	Earliest date of return to school after attack.
Smallpox	14 days.	When all scabs have fallen off.
Chickenpox	14 "	When all scabs have fallen off.
Measles	16 "	3 weeks, if all desquamation and cough have ceased.
Scarlet Fever	10 "	6 weeks, if convalescence is complete, and no desquamation, albuminuria, sore throat, nasal or aural discharges remain.
Diphtheria	12 "	3 weeks, if convalescence is complete, and no sore throat, nasal or aural discharges remain; or if after 12 days two negative swabs with a 12-hour interval are shown to the satisfaction of the M. O. H.
Whooping Cough	14 "	6 weeks after the commencement of the whooping, if the characteristic spasmodic cough and whooping have ceased —earlier if all cough gone.
Rotheln—German Measles	16 "	3 weeks.
Mumps	18 "	4 weeks if all swelling has subsided.
Typhoid Fever		8 weeks if convalescence is complete.
Itch, Ringworm and other skin diseases Ophthalmia Neonatorum Trachoma Pediculosis Impetigo Contagiosa		As soon as local affections are cured.

REGULATIONS FOR THE CONTROL OF COMMUNICABLE DISEASES.

Note.—Containers for samples of sputum, culture tubes for diphtheria swabs, and slides for blood samples may be procured free by physicians from their local M. O. H. These will be examined free of charge and prompt report made by the Laboratory of the Provincial Board of Health, Toronto, or by the branches at Kingston and London.

Regulation 1.—The Medical Officer of Health of every municipality where a patient is suffering from scarlet fever, measles, diphtheria, leprosy, smallpox, cholera, bubonic plague, epidemic anterior poliomyelitis, or epidemic cerebro-spinal meningitis, *shall* forbid, by notice posted upon the entrance to premises in plain view of the public, any person except the attending physician, health officer, clergyman, nurse, sanitary inspector or, in case of death, the undertaker, from going to or leaving such premises without his permission, or the carrying off, or causing to be carried off, any material or article whereby such disease may be conveyed, until after the disease has abated and the premises, dwelling, clothing and other contents have been rendered free from danger by means of such disinfection and cleansing as the Provincial Board of Health may direct, and he shall prescribe the precautions to be taken.

A quarantine card must give the name of the disease and in every way conform to Rule 31 of Schedule B of the Public Health Act, as follows:

"The Medical Officer of Health, within six hours after he has received notice of the existence in any house of any communicable disease in respect of which it is his duty to do so, shall affix, or cause to be affixed, near the entrance of such house a card at least nine inches wide and twelve inches long, stating that such disease exists in the house, and stating the penalty for removal of such card without the permission of the Medical Officer of Health, and no person shall remove such card without his permission."

Regulation 2.—The Medical Officer of Health may name upon such card the period of quarantine required.

Regulation 3.—Sections 49, 50, 57, 58, 60, 62, 64, 66, 67 and 71, and Rule 31 of Schedule B, of the Public Health Act, shall apply to the following communicable diseases, viz.: Smallpox, scarlet fever, diphtheria, chickenpox, whooping cough, measles, typhoid fever, cholera, bubonic plague, leprosy, epidemic anterior poliomyelitis and epidemic cerebro-spinal meningitis; except that, while all of these diseases are required to be kept isolated from the public, whooping cough, chickenpox and typhoid fever need not be placarded.

Regulation 4.—In cases of diphtheria, scarlet fever, measles, cholera, bubonic plague, epidemic anterior poliomyelitis, or epidemic cerebro-spinal meningitis, the Medical Officer of Health may, if he is satisfied of the effectual isolation of the patient, permit those who do not have the direct care of the patient or patients to leave the premises in order to attend their regular duties, except when such individuals are employed or in any way engaged in the handling or preparing of articles for food or clothing, or are associated with children away from the quarantined house.

Teachers or children in the quarantined house who are in attendance at school, college, university, or other institution of learning, must be excluded

therefrom while their home is under quarantine. The patient or patients and those having charge of them must be under rigid quarantine as directed in Regulation 1.

Regulation 5.—The Medical Officer of Health shall be satisfied that the cleansing and disinfection of any house, building, car, vessel or vehicle, or any part thereof and of any articles therein likely to retain infection, are satisfactorily carried out before the quarantine is removed.

Regulation 6.—When furniture, bedding, clothing, carpets or other articles that have been exposed to infection through contact with infected persons or articles cannot be disinfected, they may be destroyed by order of the local Board of Health or Medical Officer of Health, and the Board may make recompense therefor.

Regulation 7.—No person shall let for hire, cause or permit any one to occupy apartments previously occupied by a person ill with smallpox, scarlet fever, diphtheria, measles, cholera, bubonic plague, epidemic anterior poliomyelitis, epidemic cerebro-spinal meningitis, whooping cough, chickenpox, typhoid fever, glanders, erysipelas, tuberculosis, mumps, leprosy, anthrax or rabies until such apartments shall have been disinfected under the supervision of the Medical Officer of Health or official acting under his instructions, in accordance with the requirements of the Provincial Board of Health.

Regulation 8.—Whenever the order or direction of the Medical Officer of Health, requiring the disinfection of articles, premises or apartments, is not complied with, the Medical Officer of Health shall forthwith cause to be placed upon the door of the apartments or premises a placard in word and form as follows:

WARNING.

.....Ontario.

.....is a communicable disease. These apartments have been occupied by a ..... patient and may have become infected. They must not be again occupied until my orders directing their renovation and disinfection have been complied with.

This notice must not be removed, under penalty of law, except by an authorized health official.

.....
Medical Officer of Health.

Dated, ..., 19 .

Regulation 9.—No person shall work or be permitted in or about any establishment for the manufacture or handling of food products or clothing during the time in which a case of smallpox, scarlet fever, or diphtheria exists in the house in which he resides until the Medical Officer of Health has given such person a written certificate to the effect that no danger to the public will result from his employment in such establishment.

EPIDEMIC CEREBRO-SPINAL MENINGITIS AND EPIDEMIC ANTERIOR POLIOMYELITIS.

REGULATION 10.—Every case of epidemic cerebro-spinal meningitis and epidemic anterior poliomyelitis shall forthwith be reported to the Secretary of the local Board of Health. The patient shall be isolated. The discharges from the nose, throat and mouth of the patient must be received on cloths and burned at once. After death or recovery of the patient all personal clothing and bedding, together with the contents of the room and the room itself, must be thoroughly disinfected under the personal supervision of the Medical Officer of Health. Every doubtful case of this character must be classed as epidemic and cared for accordingly until proved to be otherwise.

SCARLET FEVER, SCARLATINA, SCARLET RASH.

REGULATION 11.—The Medical Officer of Health, having knowledge of or having reason to suspect the existence of scarlet fever, shall investigate, if necessary, and shall at once place under quarantine all persons found to be suffering from, or suspected of suffering from, scarlet fever, and those having the care of or coming in contact with such persons, except such as mentioned in Section 1 of the Regulations for the Control of Communicable Diseases.

The period of quarantine for scarlet fever shall not be less than SIX (6) WEEKS, and may be longer. Quarantine must not be raised until the Medical Officer of Health has satisfied himself that there is no further danger of infection from the patient. The quarantine must not be raised, unless the infected patient be removed or die, until six weeks or more, as the case may be, after the appearance of the last case in such family or household.

REGULATION 12.—The apartments occupied by a scarlet fever patient shall be deemed infected, and when vacated by death or removal of the patient shall, together with the contents, be thoroughly disinfected under the supervision of the Medical Officer of Health. All persons having occupied such apartments during the quarantine period must have their clothing disinfected and take disinfecting baths before being released from quarantine. All disinfection prescribed in the Regulations shall be part of the control of the disease.

REGULATION 13.—No milk container shall be returned to any dairy or milk vendor from a house where scarlet fever exists.

REGULATION 14.—No milk, butter or other dairy product shall be sold or given to any party or delivered to any creamery or butter factory from a house where scarlet fever exists.

REGULATION 15.—Every physician shall report forthwith in writing to the Secretary of the local Board the death of any scarlet fever patient under his care within twelve (12) hours thereafter.

REGULATION 16.—The Secretary of the local Board of Health must report at least weekly to the Secretary of the Provincial Board of Health all cases of scarlet fever occurring within his municipality.

DIPHTHERIA.

Regulation 17.—A suspicious case of diphtheria must be quarantined until the diagnosis is confirmed or disproved. An undoubted clinical case of diphtheria must be quarantined even if the laboratory examinations give negative findings.

Regulation 18.—The quarantine of diphtheria in public institutions where the population *is resident* shall be governed by both clinical and laboratory examinations. Immediately after the appearance of diphtheria in an institution the Medical Officer of Health shall notify the Secretary of the Provincial Board of Health, who shall supply facilities for taking cultures, if necessary, from all residents of the institution. All individuals, whether sick or well, who are found in the institution harbouring diphtheria bacilli shall be quarantined until a negative report is made upon nose and throat cultures. They shall then be properly cleansed and disinfected and placed in other detention quarters until two later and successive negative reports on double examinations of nose and throat are made, whereupon they may be released after proper disinfection.

Regulation 19.—The apartments occupied by a diphtheria patient shall be deemed infected and when vacated by death or removal of the patient shall, together with their contents, be thoroughly disinfected in the manner prescribed in the instructions *re* disinfection as issued by the Provincial Board of Health. All persons having occupied such apartments during the quarantine period must have their clothing disinfected and take disinfecting baths before being released from quarantine. All disinfection prescribed in the Regulations shall be part of the control of the disease.

Regulation 20.—No milk container shall be returned to any dairy or milk vendor from a house where diphtheria exists.

Regulation 21.—No milk, butter or other dairy product shall be sold or given to any party or delivered at any creamery or butter factory from a house where diphtheria exists.

Regulation 22.—Every physician shall report forthwith in writing to the Secretary of the local Board of Health the death of any diphtheria patient under his care.

Regulation 23.—The Secretary of the local Board of Health must report at least weekly to the Secretary of the Provincial Board of Health all cases of diphtheria occurring within his jurisdiction.

Regulation 24.—So-called membranous croup shall be classed, quarantined and cared for as diphtheria.

MEASLES.

Regulation 25.—Persons suffering from measles must not be allowed to leave the premises until after the expiration of the period of quarantine as set forth in the Regulations of the Provincial Board of Health.

WHOOPING COUGH.

REGULATION 26.—Persons suffering from whooping cough must not be allowed to leave the premises until after the expiration of the period of quarantine as set forth in the Regulations of the Provincial Board of Health.

CHICKENPOX.

REGULATION 27.—Persons suffering from chickenpox must not be allowed to leave the premises until the expiration of the period of quarantine as set forth in the Regulations of the Provincial Board of Health, and not then unless desquamation is fully completed.

TYPHOID FEVER.

REGULATION 28.—A physician in attendance upon a case of enteric (typhoid) fever, or suspected enteric fever, shall report the same within twelve (12) hours to the Secretary of the local Board of Health, who shall in turn report at least weekly to the Secretary of the Provincial Board of Health all cases so reported to him upon blanks furnished for that purpose.

REGULATION 29.—The Secretary of the Provincial Board of Health shall keep careful and accurate record of all reported cases of typhoid fever. The same shall not be for publication, but may be used by the said Board in the discharge of its duties.

REGULATION 30.—No person affected with typhoid fever or in charge of a typhoid patient shall so dispose of the excreta or other infectious bodily secretion or excretion so as to infect or cause offence or danger to any person or persons, and all fæcal discharges shall be placed in a vessel containing an equal quantity of 1-in-500 solution of bichloride of mercury for at least one hour before being finally disposed of.

REGULATION 31.—It shall be the duty of those having charge of a typhoid fever patient or patients to see that the excreta and other infectious bodily secretions or excretions from such patient or patients are properly disinfected.

REGULATION 32.—The apartments occupied by a typhoid fever patient shall be deemed infected, and when vacated by death or removal of the patient shall, together with their contents, be thoroughly disinfected under the supervision of the Medical Officer of Health. All disinfection prescribed in this rule shall be part of the control of the disease.

REGULATION 33.—The Medical Officer of Health in cities, towns and villages shall keep in his office a map of the municipality and shall mark thereon the lot, street or other place where the case of typhoid fever or suspected typhoid fever occurred, and shall also make a further distinguishing mark where the death of a patient is reported to him.

RABIES.

Regulation 34.—When an animal suspected of having rabies has bitten a human being, the fact should be immediately reported to the Medical Officer of Health, who shall secure, or cause to be secured, such animal alive and without injury if possible. The animal shall at once be safely chained up and confined in a safe and comfortable place and a report, giving full particulars concerning the action taken, sent to the Secretary of the Provincial Board of Health. This report shall include the name of the locality in which the biting occurred (city, town, village or township), the date of biting, the name, residence and address of the owner of the animal, the full name of the person bitten, together with place of residence, and the names, addresses and residences of all owners of animals which have been bitten by the animal in question, together with a list and description of the animals bitten and the disposition made of the same.

Such supposedly rabid animal must be kept under careful observation by the local Officer of Health for at least ten days.

Regulation 35.—When such suspected animal is killed, care must be taken not to injure the brain or spinal cord. The head and several inches of the neck of the animal must be cut off and sent to the Laboratory of the Provincial Board of Health.

Regulation 36.—All persons bitten by an animal suspected of having rabies should at once communicate with the Secretary of the Provincial Board of Health and be advised as to the necessity of receiving the Pasteur treatment.

Note.—At present, Pasteur treatment is supplied at cost ($20.00) by the Provincial Board of Health at No. 5 Queen's Park, Toronto.

SMALLPOX REGULATIONS.

Regulation 1.—Where smallpox is present in any municipality in Ontario, the local Board of Health of the municipality shall at once appoint one or more sanitary policemen for the purpose of assisting to arrest the spread of the disease.

If the Medical Officer of Health or the Provincial Board requires the appointment of any specified number of sanitary policemen, then such number shall be appointed by the local Board. In case the local Board neglects or refuses to make the required appointment, the Provincial Board may appoint as many sanitary policemen for such municipality as it deems necessary.

Regulation 2.—Any default on the part of the authorities of any municipality in taking immediate and effective action in carrying out the Public Health Act, the Vaccination Act, the Regulations of the Provincial Board of Health, or any health by-law in force in the municipality, shall be at once reported by the Medical Officer of Health to the Secretary of the Provincial Board, in order that the said Board may take such measures as it deems necessary for placing the said municipality in a position to effectively combat the disease.

Regulation 3.—If any person coming from abroad or residing in any municipality within Ontario is infected, or has recently been infected with or exposed to smallpox, the Medical Officer of Health or local Board shall make effective pro-

vision for the public safety by removing such person to a separate house, or by otherwise isolating him, and by providing medical attendance, medicine, nurses, and other assistance and necessaries for him.

Regulation 4.—The Medical Officer of Health shall take proper measures for the disinfection or, if necessary, the destruction of all clothing which may have been exposed to the contagion, and for the disinfection and purification of every premises which may have been exposed to the contagion.

Regulation 5.—The Medical Officer of Health shall have power to place in another building or tent, which shall be provided by the local Board, all persons who may have been exposed to the contagion, and in such case shall supply them with all necessaries until the period of incubation of the disease shall have elapsed, and no such person shall go or be permitted to go abroad until he has given satisfactory proof of successful vaccination within the preceding seven years or shall have obtained a medical certificate of insusceptibility to the vaccine disease, nor until the clothing or effects worn or carried by or with him have been properly disinfected, if the same have been exposed to contagion.

Regulation 6.—When any vessel coming from an infected locality enters any port in Ontario, the Medical Officer of Health having jurisdiction in the port shall make a strict inspection of the vessel and examination of the passengers, officers and crew, luggage, clothing, bedding, freight or other effects before any person, luggage, freight, or other thing is landed or allowed to be landed from it, and where any infected or exposed person is found on board, he shall be dealt with in the manner directed in the preceding Regulation numbered five, and no luggage, freight or other thing shall be landed from the vessel until they have been thoroughly disinfected.

Regulation 7.—With a view of preventing, by means of a systematic inspection of passengers, baggage and cars, the introduction of infected persons, things and conveyances into the Province, the Provincial Board may, if an epidemic of smallpox exists in any other locality, appoint medical inspectors who shall perform such duties as may be assigned to them by the Board, and may board all trains entering this Province from such other locality and all boats bearing passengers from such other locality to Ontario ports, and any other train or boat suspected of having infected persons, luggage, freight or other effects on board. Every such inspector may take in respect of such persons, luggage, freight or effects any sanitary precaution authorized by the Public Health Act or by any Regulations issued by the Board.

The inspector may require any person travelling on any such train or boat either to produce for examination by the inspector a medical certificate of such person having been vaccinated within the preceding seven years or of being insusceptible to the vaccine disease, or to exhibit to such inspector the marks on his person of successful vaccination, such as to satisfy the inspector that the same has been performed within seven years. In default thereof, the inspector is empowered to vaccinate such person either before he is permitted to leave the train or boat, or immediately thereafter, at his discretion.

Each person so travelling shall answer truthfully all reasonable questions which an inspector shall, in the performance of his duty, ask such person with reference to the places where such person has been and his stay there during the twenty-

one days next preceding such inquiry being made; and in case any such person refuses or omits so to do, the inspector shall be justified in presuming that such person has within such time been exposed to infection and in acting accordingly.

Regulation 8.—The Medical Officer of Health and all other sanitary officers shall, whenever required by the medical inspectors appointed by the Provincial Board, aid such inspectors in providing for and compelling the removal of suspected or infected persons from trains or boats, and for isolating and vaccinating such persons, and for supplying them with medical aid; and the expenses attendant upon the discharge of such duties shall be borne by the Provincial Board in all cases where the persons for which they are performed are unable to pay therefor, and are not residents in the municipality in which they are taken care of, or as otherwise provided for by the Sanitary Regulations of Unorganized Territories.

Regulation 9.—In every municipality where smallpox exists, or in which the Provincial or local Board of Health has notified the Council that in its opinion there is danger of its breaking out owing to the facility of communication with infected localities, the Council of the municipality shall order the vaccination and re-vaccination of all persons resident in the municipality who have not been vaccinated within seven years, and that such vaccination or re-vaccination shall be carried out in so far as the same may be applicable in the same manner as the vaccination of children, except that a person of fourteen years of age or over but under the age of twenty-one years, who is not in the custody or under the control of his father, mother, or of any other person, and every person of twenty-one years or over, shall present himself for vaccination by the medical practitioner, or by some other legally qualified medical practitioner, and the medical practitioner shall adopt the same measures to secure the vaccination or re-vaccination of every such person, as he is required to take with regard to children.

Regulation 10.—A proclamation issued by the head of the municipality and published in posters and in at least one newspaper published within the municipality, or, if there is no such newspaper, in at least one newspaper published in the county or district in which such municipality is situate, warning the public that this section is in force, shall be sufficient evidence to justify the conviction of any person who has failed to comply with the law within a period of seven days from the publication of the proclamation.

Regulation 11.—Every member of a municipal council which neglects or refuses to make the order required by Regulation 9 or to make proper provision for carrying the same into effect, shall incur a penalty not exceeding $25, unless he proves that he did everything in his power to secure the making of the order or the making of proper provision for carrying any such order into effect, and causes his protest against such refusal or neglect to be recorded in the proceedings of the Council.

Regulation 12.—If the head of a municipality neglects or refuses to issue and publish the proclamation required by Regulation 10, he shall incur a penalty not exceeding $25.

Regulation 13.—Every person who wilfully neglects or refuses to obey the order of the Council shall incur a penalty not exceeding $25.

REGULATION 14.—Where it is deemed necessary by the Medical Health Officer of any municipality, owing to the presence or threatened presence of smallpox, he may, with the approval of the local Board of Health, require certificates of successful vaccination or of insusceptibility on re-vaccination within seven years of all pupils or students of a public, separate, continuation or high school or collegiate institute and of a college or university, or of any other public or private institution of learning within the municipality, to be presented to the proper authorities of the institution, and no pupil or student refusing to produce such certificate on demand shall be admitted to further attendance in the institution until the certificate is furnished.

REGULATION 15.—Any principal, teacher, superintendent or officer of any such institution who commits or is party or privy to any contravention of Regulation 14 shall incur a penalty not exceeding $20.

REGULATION 16.—The medical inspectors to whom is assigned the duty of inspecting trains and boats coming from outside the Province upon which smallpox exists, or is suspected to exist, shall be governed by the following rules:

(1) They shall examine all persons thereon, note whence they have come, their destination, and whether there is any reason to suspect their being infected with smallpox.

(2) The effects of persons regarding whom there is suspicion should be dealt with as directed by the Public Health Act.

(3) If an inspector believes that any such person is infected or that his clothing or other effects contain infection, the inspector shall detain such person, his clothing and effects as aforesaid, at some convenient point *en route* until the period of incubation is over and the clothing and other effects shall be at once disinfected.

(4) If a medical inspector only suspects that any person on board, or the effects of any such person have been exposed to infection, the inspector shall notify the Medical Officer of Health of the municipality to which the person is going, to meet the train or boat and to keep said person thereafter under observation.

(5) In either of the cases mentioned in the two next preceding rules, unless the person believed to be conveying or suspected of conveying contagion shows satisfactory proof of vaccination within seven years or of insusceptibility to the vaccine disease, he shall forthwith be vaccinated; and, if necessary, shall be detained by the Medical Officer of Health until vaccinated by him or some other proper person.

REGULATION 17.—The action to be taken in the event of a case of smallpox being discovered is, shortly, as follows:

(*a*) Detention and isolation of persons affected.
(*b*) Fumigation of car or boat.
(*c*) Vaccination of all persons who have been exposed to the contagion.
(*d*) Detention of any such person who refuses to be vaccinated.
(*e*) Notification of Medical Officers of Health at places of destination.

REGULATION 18.—In all cases, Medical Officers of Health and other sanitary officers are required to use extreme care, tact, and judgment in dealing with the public, so that having regard to the public safety, persons travelling are not unnecessarily detained.

ACT RESPECTING SANITARY REGULATIONS

IN

UNORGANIZED TERRITORIES

AND

REGULATIONS FOR THE SANITARY CONTROL

OF

LUMBER, MINING

AND

CONSTRUCTION CAMPS,

Etc., Etc.

In Unorganized Districts of Ontario, with Information required by the Provincial Board of Health.

SPECIAL NOTICE TO EMPLOYERS OF LABOUR IN THE UNORGANIZED DISTRICTS OF ONTARIO.

Attention is directed to the following requirements of the Regulations:

1. Notify the Provincial Board of Health forthwith of each camp or works you are now operating and send notice annually hereafter.

2. A physician must be engaged to supervise the sanitary conditions of each camp and works. He must inspect monthly and report in writing to the Provincial Board of Health.

3. Every employer of labour, other than lumbermen, must contract with a physician for the medical and surgical care of employees, the maximum amount that can be legally deducted from an employee's wage for such service being one dollar per month without rebate or deduction.

4. Employers of labour in lumber camps must particularly note that they have the option of employing a physician, as provided by Regulation 3.

Those lumbermen who do not contract incur certain personal responsibilities regarding the medical care of employees taken ill while in their employ or who may develop an illness, origin of which is traceable to the time of their employment.

5. Every employer shall transmit a copy of contract to the Provincial Board of Health.

6. The owner, manager, agent or foreman of each camp or works is responsible for the enforcement of these Regulations and the provisions of the Public Health Act as regards quarantining and isolating of employees.

7. Every employer who neglects to enforce the Public Health Act in each camp or works is subject to penalties.

8. The Provincial Board of Health must be notified at once of each case of communicable disease.

9. Each employee, when requested, shall show a certificate of successful vaccination or re-vaccination.

10. Each camp or work is required to have hospital accommodation for employees, and in addition each camp or works must have separate isolation hospital accommodation for communicable diseases.

11. The Regulations 11 to 18, inclusive, relate to the construction and sanitary conditions of buildings, lavatories and closets; they require the providing of a laundry house, bath house and kitchen, and require the collection and proper disposal of garbage.

12. Penalties for non-compliance with these Regulations are those contained in Section 109 of the Public Health Act.

The Following Sections of the Public Health Act Refer to Unorganized Territories.

116.—Sections 117 to 123 shall apply only to territory without municipal organization.

117.—(1) The Provincial Board of Health may, with the approval of the Lieutenant-Governor in Council, make regulations:

(*a*) Respecting any industry and the conditions under which the same may be carried on, for the purposes of preventing nuisances and the outbreak or spread of disease:

(*b*) For the cleansing, regulating and inspection of lumbering camps and of mining camps and railway construction works and of other places where labour is employed;

(*c*) For providing for the inspection of houses and premises;

(*d*) For providing for the employment of duly qualified medical practitioners by employers of labour in lumbering camps and in mining camps and on railway construction works and other works where labour is employed, and for the erection of permanent or temporary hospitals for the accommodation of persons so employed.

(2) The regulations may be general in their application or may be made applicable specially to any particular locality or industry.

(3) The expenses of carrying out the regulations shall be paid to the person entitled thereto by the persons, firms or corporations whose duty it may be to carry out such regulations, and the amount so to be paid shall be apportioned by the Minister among them as he may deem proper, and every amount so apportioned shall be deemed to be a debt due from the person, firm or corporation, and may be recovered by the person entitled thereto by action in any court of competent jurisdiction. 1 Edward VII. c. 34, ss. 1-3.

(4) If default is made in complying with any of the regulations, the Board may direct that what is omitted to be done shall be done at the expense of the person, firm or corporation in default, and if the default is the failure to employ a duly qualified medical practitioner, as provided by clause (*d*) of subsection (1), the employing person, firm or corporation shall be liable to pay the reasonable expenses incurred by any employee for medical attendance and medicines, and for his maintenance during his illness.

REGULATIONS FOR THE SANITARY CONTROL OF LUMBER, MINING AND OTHER CAMPS, SAW MILLS AND OTHER INDUSTRIES SITUATED IN THE UNORGANIZED DISTRICTS.

Employers to notify Provincial Board of establishment of each camp forthwith and annually.

1. Every employer of labour on any work in any lumbering, mining, construction or other camp, saw mill and other industry situate in any portion of the unorganized districts without municipal organization, shall, upon the establishment of each and every camp and work, forthwith notify the Provincial Board of Health of the establishment of the same, and annually thereafter upon a date fixed by the said Board, giving particulars as may be required by the said Board.

All employers to contract with physicians for supervision of camps and monthly inspection of same

2. Every employer of labour on any such work shall contract with a duly qualified physician for the sanitary supervision of camps, dwellings, or works, and such physician shall inspect the same at least once a month or oftener, if, in the opinion of the Chief Officer of Health, the health conditions of the Province require it, and shall forthwith report in writing to the Provincial Board; the first report, however, to be accompanied by a sketch or plan of each camp, showing the location

of the various buildings, with distance apart, location of water supply, slopes of ground with drainage, and such other information as may be required by the Provincial Board.

Employers (except lumbermen) to contract with physicians for medical and surgical care of employees; they may deduct from wages a sum not exceeding $1.00 per month.

3. Every employer of labour on any work other than a lumber camp shall contract with one or more *duly qualified physicians* for the medical and surgical care of his employees; and may deduct from the pay due any employee a sum not exceeding $1.00 per month, which shall be paid to the physican or physicans so contracted *without rebate or deduction,* and every such *physician* shall supply medical attendance and medicine to the employees.

Lumbermen have option of employing physicians, but in lieu thereof assume certain responsibilities.

4. Every employer of labour in a lumber camp may contract with one or more duly qualified physicians in the manner hereinbefore provided, and in that case may proceed in the manner authorized by the said regulations, and every physician so contracted with shall possess the powers and perform the duties set out in the next preceding regulation, but every such employer who does not contract for the medical attendance of his employees shall be responsible for the medical care and maintenance of each and every employee taken ill while in his employ, and shall incur a like responsibility for each and every case of sickness which develops in an employee after quitting his service or after being discharged from his employ when, in the opinion of the Provincial Board, the origin of such sickness is traceable to the period of such employment, or to an accident to an employee occurring while in such employ, when the sick or injured person is not able to pay or does not pay for the same—the apportionment and adjustment of the payment of expenses so incurred to be determined according to section 117, subsection 3, chap. 58, 2 George V.

Copy of contract to be forwarded to Provincial Board, which for reasons may require changes in manner herein set forth.

5. Employers of labour on all works in the unorganized districts without municipal organization shall transmit, at the time of the making of the contract, a copy of the same to the Secretary of the Provincial Board of Health, and notice of any subsequent change made in their physicians, or of changes in the contracts between the two contracting parties. Should it appear to the Provincial Board, owing to the distance of the residence of the physician employed from the camps of the company, that the best interests of the employees are not likely to be served, it shall be competent for the said Provincial Board, with the approval of the Minister, to require any employer of labour in such district to contract with some physician residing at or near the works of the company. Should it further at any time appear, owing to the distance of the physician from the camps, or to neglect, or other cause on the part of the company or physician employed, that an employee has been put to expense to secure the medical assistance for sickness or accident other than of employer's physician, the employer and physician shall be held responsible for the payment of a reasonable fee for medical services, the amount to be paid in such

instances to be determined in case of dispute by the Minister or the Department, under section 117, subsection 3, chap. 58, 2 George V.

Owner, Manager, etc., responsible for carrying out of Regulations and Health Act.

6. The owner, manager, agent or foreman of any lumbering camp, mining camp, saw mill, smelting works or other industry, or of any railway construction camp located in any portion of the unorganized districts without municipal organization, shall in connection with every such industry or works be responsible for the execution and enforcement of any regulation herein contained, or of any clause of the Public Health Act governing in any case or circumstance.

The same measures taken by local health authorities to be adopted by employers, agents, etc., in the case of communicable diseases.

7. Every measure required to be taken by a local Board of Health or any Medical Officer of Health, sanitary inspector or other health officer under the Public Health Act, or any regulation made thereunder in any organized municipality, must at once be taken by the employer and his employees or agents, or the physician employed by the same, whenever any suspected communicable disease referred to in the said Public Health Act or Regulations, breaks out in any camp, works or dwelling to which these regulations apply, and the said employer, manager, foreman, agent or physician employed shall be subject to the same penalties as any of the aforesaid health officers.

Provincial Board to be notified forthwith of each and every case of a communicable disease.

8. Should any suspected communicable disease, as defined under the Public Health Act, break out in any camp, works or dwelling, the employer or his employee or agent in charge of any camp, work or dwelling, shall immediately send notice to the physician employed, who shall at once notify the Secretary of the Provincial Board of the outbreak. In all respects the employer, his employee or agent in charge of any camp, works or dwelling, shall be held to be in the same position as regards the occurrence of communicable disease therein as a householder, and shall conform to sections 53, 54 and 60, and such other sections of the Public Health Act and Regulations as may relate to the duties of the householder.

Employees in camps to furnish certificate of vaccination upon request of Provincial officer.

9. Every employee in any lumbering camp, mining camp or other industry on which men are employed shall, when requested by the secretary or officer of the Provincial Board of Health, furnish the foreman or other person in charge of the same with a certificate of successful vaccination or re-vaccination within the immediate preceding seven years, and the secretary or officer of the said Board shall forthwith quarantine any such camp or works until such certificate has been furnished by each and every employee in the said camp, works or industry.

Two classes of hospitals must be provided by all employers.

10. In connection with every camp, work or dwelling coming under these regulations, there shall be constructed a building, or in lieu thereof, a double-walled tent or tents shall be kept on hand with floor or floors and with facilities for

heating and ventilation, for the reception of any employee who may become sick. Such building or tent to be approved by the inspector or other officer of the Provincial Board of health. Should any communicable disease, such as smallpox, chickenpox, diphtheria, scarlet fever, typhoid fever, measles, German measles, glanders, cholera, erysipelas, tuberculosis, mumps, anthrax, bubonic plague, rabies, poliomyelitis, cerebro-spinal meningitis and whooping cough, as defined by the Public Health Act, break out, a separate and distinct isolation hospital, building or tent, provided by the owner, shall be located by the physician in charge of the patient in a position satisfactory to the inspector or officer of the Provincial Board of Health.

Site of camp, buildings, etc., to be approved by inspector.

11. The location of the buildings of any camp or works shall be made with a due regard to its healthfulness, and any new camp or works located without the previous approval of the inspector or officer of the Provincial Board must, if the site is found to be undrained, unhealthy, or wanting in any adequate or wholesome water supply, be moved to a proper location; and any old camp, works or dwelling, if proved unsanitary or unhealthy shall be made satisfactory to the aforesaid inspector or officer.

No camp shall be erected nearer than 100 feet to any lake, stream or other water.

All bunks must be constructed parallel with the wall of the building to prevent overcrowding.

The lower tier of bunks shall be raised at least one foot from the floor, and the floor shall extend completely to the wall.

Provisions as to air space, lighting, etc.

12. Any house, tent or dwelling occupied by the employees engaged in any industry in any territory without municipal organization shall contain 600 cubic feet of air space for every occupant thereof, and shall further be provided with sufficient means of ventilation. The floor of every dwelling shall be constructed of boards or planks, or other material equally suitable for the purpose, raised on supports at least one foot from the ground, and so made that it shall be tight. Every such dwelling, other than a temporary tent, not exceeding ten by fifteen feet, shall be supplied with adequate lighting, and in all wooden or iron structures the windows must be constructed that they can be opened when necessary.

Method of ventilation to be approved.

13. The method of ventilation of every dwelling in which a stove or furnace is used, shall be such as will satisfy the inspector or officer of the Provincial Board. The temperature of the room should be maintained at from 60 degrees to 65 degrees Fahr., and a shallow pan supplied with water shall be kept on the stove to supply air moisture.

Wash-house, laundry and bath.

14. Every camp or the works of any industry coming under these regulations shall be equipped with a separate building to be used as a wash-house or laundry, and attached thereto a room, or, if preferred, a separate building or tent equipped

with a stove and tubs for bath purposes in a manner satisfactory to the inspector or officer of the Provincial Board.

Separate kitchen with dining-room to be provided.

15. Every camp or works shall be supplied with a building or tent properly constructed and set apart as a kitchen or cook-house, and having a dining-room or eating-room in connection therewith, with proper conveniences for the cleanliness and comfort of the employees, and must be satisfactory to the inspector or officer of the Provincial Board.

Refuse to be collected and removed in buckets.

16. Proper buckets shall always be kept on hand into which all refuse, whether liquid or solid, can be placed; and the refuse must regularly be removed to a safe distance from the kitchen, and be so deposited as not to create a nuisance or contaminate the drinking water. A properly constructed drainage system satisfactory to the aforesaid inspector or officer may be utilized in lieu of slop buckets.

Latrines or earth closets to be kept clean.

17. Latrines, earth and other closets located to the satisfaction of the physician employed, and to the inspector or officer of the Provincial Board, shall be constructed at every camp or works, and must be located and maintained in a sanitary condition satisfactory to the medical officer of the works and to the aforesaid inspector or officer.

Stables to be not less than 125 feet distant from kitchen, etc.

18. The stables in connection with any works or camp must be so located as not to contaminate the water supply, or drain to any water; they must not be less than 125 feet distant from any dwelling or kitchen. In large camps this distance may be increased if thought necessary by the aforesaid inspector or officer.

In mines of 100 feet in depth, portable privies are required.

19. In mines of a depth of 100 feet or over, or with drifts of 300 feet or over, portable closets satisfactory to the Provincial Board for the use of the employees are required.

Printed copies of Regulations to be forwarded by Board and kept on file in office.

20. Printed copies of these regulations shall be furnished every employer of labour upon notifying the Secretary of the Provincial Board, as required under section 1 of these Regulations, and a copy shall be kept on file in the office of each clerk of the works for the use of the employees if so desired.

Board may enforce regulations at expense of employer.

21. Should the Provincial Board, on complaint or otherwise, find that any of these regulations are not complied with, the Board or its inspector shall, when necessary, take steps to enforce these regulations; and the expense of such inspection

shall be paid by the employer or his agent responsible for the violation of the regulations, as provided under section 117, subsection 3, of the Public Health Act.

Penalties same as under Section 84 of the Public Health Act.

22. The penalties contained in Section 84 of the Public Health Act against illegal carrying on of any industry mentioned therein, shall apply to the violation of any regulation herein made with regard to the proper location, construction and equipment of the camps, works or dwellings under these regulations.

INFORMATION REQUIRED TO BE FURNISHED ANNUALLY TO THE PROVINCIAL BOARD OF HEALTH BY PROPRIETORS OF LUMBER CAMPS AND OTHER CAMPS IN UNORGANIZED DISTRICTS.

1. List of camps and locations of each.
2. Name of foreman in each.
3. Means of access to each camp.
4. Average number of men in each camp.
5. Name and residence of physicians contracted with and whether located in camp or not.
6. Date of contract and its duration.
7. Whether contract is under Clause 2 only, or 2 and 3, under the powers of the Regulations, and if under the latter, state amount deducted from each man's pay monthly for physician's fee.
8. Is a permanent hospital provided in camp, or tent.
9. Hospital tickets sold to employees in the camps are not recognized by this Board in lieu of the requirements of the Regulations.
10. The above information must be furnished immediately on the establishment of every camp.
11. A copy of the medical contract, properly dated and signed by both parties, must be furnished this Board at the time of the making, and also a notification of any change in physicians or terms of contract.

Regulations for the Control of Tuberculosis.

1. Whenever any legally qualified medical practitioner knows that any person whom he is called upon to visit is infected with tuberculosis, he shall within twelve hours give notice thereof in the prescribed form to the Medical Officer of Health of the municipality in which such diseased person is.

2. This section shall apply to the medical superintendent or person in charge of any general or other hospital in which there is known to him to be a patient suffering from tuberculosis.

3. The Medical Officer of Health shall enter in a book to be kept for that purpose, in the prescribed form, the particulars contained in the notice, and shall

further make a weekly report of all the cases so reported to him to the Secretary of the Provincial Board of Health.

4. The Medical Officer of Health in cities, towns and villages shall keep in his office a map of the municipality and shall mark thereon the lot, street or other place where the case of tuberculosis or suspected tuberculosis occurred and shall also make a further distinguishing mark where the death of a patient is reported to him.

5. Immediately on receipt of a notice, the Secretary of the Provincial Board of Health shall, upon request of the Medical Officer of Health, mail to the address of the patient such instructions for the care and prevention of the disease as may from time to time be authorized by the Provincial Board.

6. The Local Board of Health or Medical Officer of Health shall maintain whatever supervision they may deem necessary over the case and, if in their opinion the health of others dwelling in the same house or in personal contact with the patient is threatened, they shall order the removal of the patient to a hospital or sanatorium.

7. Every such patient shall remain in such hospital or sanatorium until in the opinion of the Medical Officer of Health he may safely be allowed to return to his former place of abode.

8. In case of an indigent patient whose removal has been so ordered, the expense of such removal and the cost of maintenance of such patient shall be paid by the municipality where the patient has had his usual place of abode, and if the patient has no permanent place of residence, or his usual place of abode cannot be ascertained, then the cost of his removal and maintenance shall be paid by the municipality whose Medical Officer of Health or Local Board of Health has ordered such removal.

9. In the case of unorganized districts these Regulations shall be enforced and carried out under and by order of the Provincial Board, and the cost of removal and maintenance shall be paid out of the money appropriated therefor by the Legislature.

10. In the case of death, removal or recovery of a person suffering from tuberculosis, it shall be the duty of the Medical Officer of Health to provide that the residence of such patient shall be thoroughly and efficiently disinfected and renovated at the cost of the owner before any person is allowed to occupy such residence.

11. The Medical Officer of Health may, when he deems necessary, require that any premises occupied by a person suffering from tuberculosis shall be cleansed and disinfected to his satisfaction at the expense of the municipality.

12. All information furnished to the Medical Officer of Health or Local Board of Health and the entries made by the Medical Officer of Health, and all subsequent reports furnished with respect to any cases or suspected cases of tuberculosis shall, so far as possible, be treated confidentially, and all persons having official knowledge of the case shall not divulge or permit to be divulged any of the particulars to any person except as authorized by the Regulations.

13. The person affected with tuberculosis, or those in charge of him, shall on removal or change of residence at once report such change of residence to the Medical Officer of Health of the municipality in which such change occurs, and in case such person shall remove from one municipality to another municipality, he shall at once give notice thereof to the Medical Officer of Health of each municipality.

14. Upon the recovery of any person from tuberculosis, the attending physician shall report the fact to the Medical Officer of Health, who shall make record thereof and such person shall thereupon be relieved of further liability under the Regulations.

Quotation from The Public Health Act.

Respecting the Sanitary Precautions to be taken in Health Resorts, Summer Resorts, and upon Boats or other Vessels plying upon the Waters of Ontario, and for preventing the Pollution of such Waters by the deposit therein of sewage, excreta, manure, vegetable, or animal matter or filth:

SECTION **91**.—(1) No garbage, excreta, manure, vegetable or animal matter or filth shall be discharged into or be deposited in any of the lakes, rivers, streams or other waters in Ontario or on the shores or banks thereof.

(2) The owners and officers of boats and other vessels plying upon any such lake, river, stream or other water shall so dispose of the garbage, excreta, manure, vegetable or animal matter or filth upon such boats or vessels as not to create a nuisance or enter or pollute such lake, river, stream or other water.

(3) Residents of a health resort or summer resort shall so dispose of garbage, excreta, manure, vegetable or animal matter or filth as not to create a nuisance or permit of its gaining entrance to or polluting any such lake, river, stream or other water.

(4) Any person who contravenes any of the provisions of this section shall incur a penalty not exceeding $100. (*See* 6 Edw. VII. c. 19, s. 32.)

REGULATIONS OF THE PROVINCIAL BOARD OF HEALTH RESPECTING SEWAGE DISPOSAL IN SUMMER RESORTS.

REGULATION 1. No raw sewage is allowed to enter the lakes, streams or other waters of the Province.

REGULATION 2. The sewage of hotels and boarding houses is laid down at three (3) cubic feet, or twenty (20) gallons, per head. In private houses one-half this quantity will be the average amount.

REGULATION 3. One of the following methods may be used:

(1) DRY EARTH CLOSETS remote from the water, if carefully attended to. Use dry earth, wood or coal ashes.

(2) SUB-SURFACE IRRIGATION—

(*a*) In first-class soil, that is, pure sand, or porous sandy loam, use 40 tile per head, with one flushing in 24 hours.

(*b*) If the irrigation area is 150 feet or more from the water, the number of tile may be reduced to 20 with two flushings in 24 hours.

(*c*) Any variation of (*a*) and (*b*) will depend upon the nature of the soil and the distance from the water to be protected. These questions will be determined by the Provincial Board.

(3) CHLORINATION. Where the soil is unsuitable for sub-surface irrigation the sewage may be treated by:

(*a*) An approved type of sedimentation tank. The effluent from this is to be treated by the use of 15 parts per million of available chlorine, with a rest of three hours maximum flow (one-sixth of the total flow).

(*b*) In cases where sprinkling filters are used in addition to the sedimentation tank, the quantity of chlorine which may be used shall be determined by the Board according to the efficiency of the filter.

REGULATION 4. Every plan of sewage disposal shall, before its establishment, be approved by the Provincial Board of Health.

Regulations for the Control of Inspection of Meat.

1. Where a municipality has established a public slaughter house or abattoir and appointed one or more inspectors in accordance with the Public Health Act, such municipality may pass by-laws requiring that no carcass or meat shall be offered for sale or sold therein unless such carcass or meat has been inspected and stamped with the official stamp of the inspector or of a Dominion or Provincial Inspector.

2. The slaughter house or abattoir shall be constructed, equipped and maintained to the satisfaction of the Provincial Board.

3. Every by-law and the rules, regulations and charges thereunder shall be approved by the Provincial Board.

Regulations Respecting the Matter of Providing Pure Drinking Water in Public Places.

The following regulations are made under paragraph 14 of Section 13 of the Public Health Act (amended 1911).

REGULATION 1.—Hotels, restaurants, railway trains and depots, boats and all other public places which provide a supply of drinking water for the use of the public shall at all times be required to provide that such drinking water shall be pure and wholesome.

REGULATION 2.—Any contravention of the foregoing Regulation shall be subject to the penalties provided by the Public Health Act in respect thereto.

Regulations of the Provincial Board of Health in Respect to Burials and Transportation of the Dead.

1. The body of any one who has died of smallpox, scarlet fever, measles, diphtheria, croup, bubonic plague, cholera, epidemic cerebro-spinal meningitis or epidemic anterior poliomyelitis, shall be interred forthwith except as hereinafter provided, and in no case shall exposure of the body be allowed or a public funeral held

2. The body of anyone who has died of smallpox, scarlet fever, measles, diphtheria, croup, bubonic plague, cholera, epidemic cerebro-spinal meningitis or epidemic anterior poliomyelitis, shall in no case be transported by railway, boat or other public conveyance unless such body has first been completely wrapped in a sheet wrung out in 1-in-500 bichloride of mercury and enclosed in an hermetically sealed coffin to the satisfaction of the Medical Officer of Health, whose certificate to this effect shall appear upon the outside of the coffin. The coffin must not subsequently be opened.

3. The body of any one who has died of any of the aforesaid diseases shall not be disinterred for any reason except by the order of the Attorney-General, unless for purposes of transportation or reinterment within Ontario, in which case the precautions named in Regulation 2, must be complied with under the supervision and with the consent of the Medical Officer of Health.

4. The body of any one who has died of any other than a communicable disease may be transported or disinterred for interment or re-interment under the certificate of the Medical Officer of Health.

Forty-Fifth Annual Report

OF THE

Inspector of Prisons and Public Charities

UPON THE

Hospitals for the Insane

OF THE

PROVINCE OF ONTARIO

Being for the Year ending 31st October

1912

PRINTED BY ORDER OF
THE LEGISLATIVE ASSEMBLY OF ONTARIO

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Toronto, *January* 22nd, 1913.

To His Honour SIR JOHN MORISON GIBSON, K.C.M.G., K.C., LL.D., etc.

Lieutenant-Governor of the Province of Ontario.

May it Please Your Honour:

I beg to submit herewith the Forty-fifth Annual Report upon the Hospitals for the Insane of Ontario, being for the official year ending on the 31st October, 1912.

I have the honour to be,

Your Honour's most obedient servant,

W. J. HANNA,

Provincial Secretary.

Office of the

Inspector of Prisons and Public Charities, Ontario.

Parliament Buildings, Toronto, January 15th, 1913.

Sir,—I have the honour to transmit herewith, to be presented to His Honour the Lieutenant-Governor, the Forty-fifth Annual Report upon the Hospitals for the Insane of Ontario, being for the official year ending 31st October, 1912.

I have the honour to be, Sir,

Your obedient servant,

EDWIN R. ROGERS,

Inspector.

The Honourable W. J. Hanna, M.P.P.

Provincial Secretary of the Province of Ontario.

Toronto.

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Report

Of Edwin R. Rogers, Inspector of Prisons and Public Charities for the year ending Oct. 31st, 1912.

General.

On Oct. 31st, 1912, exclusive of insane patients in the Homewood Sanatorium at Guelph, there were in the Hospitals for Insane of Ontario 5,726 insane persons divided as follows:

Males	2,769
Females	2,957
	5,726

The net increase in the population for the year was 86.

Great difficulty has been experienced in meeting the demands for accommodation, although the capacity of the Hospitals has been increased 81.

Movements of Patients.

The daily average number of patients in the Provincial Hospitals for the Insane during the year was 5,682. An increase of 90.

The total number of admissions was 1,247 an increase of 103.

The total number of deaths was 460, an increase of 45.

The total number of discharges was 570, an increase of 28.

Revenue.

There has been an increase in the revenue from paying patients and other sources as follows:

1911	$190,085.17
1912	195,428.47
Increase	$5,343.47

There is also an increase collected from the Municipalities under the provision of 6 Edward VII., Chap. 8, as follows:

1911	$113,613.80
1912	116,896.70
Increase	$3,282.90

Total revenue for the years

1911	$303,698.97
1912	312,325.17
Total increase for the year	$8,626.20

Deportation.

The work of deportation has been effectively carried on during the year with the result that 251 persons have been deported as follows:—

Number of insane deported	66
Number of criminal deported	149
Number likely to become a public charge	43
	258

An increase of 32.

Greater facilities for the care and mental improvement of the insane have been made during the year.

At Brockville 100 acres of land was purchased making the total acreage of the farm 320 acres.

In all the institutions many needed additions and improvements have been made.

The site selected for the new hospital at Whitby is an exceptionally good one, comprising in all about 640 acres, exceedingly fertile, bordering on the shores of Lake Ontario and Whitby harbor.

The buildings when completed will accommodate 1,500 patients and will be one of the most modern and complete hospitals for the treatment of mental diseases. Useful occupation of the able bodied insane is important from an economic and psychic view point. It is likewise beneficial remedially by lessening the tendency to further mental degeneracy. The work accomplished by the patient is of incalculable value and without which the institutions could not be maintained except by greatly increased cost.

In all the institutions opportunity for recreation is supplied. Open air exercise when the weather is favorable many entertainments during the winter months have been furnished for the patients, curling and skating being a favorite pastime. During the summer lawn bowling, tennis, baseball and other seasonable sports are indulged in.

Edwin R. Rogers,

Inspector.

TABLE

Showing movements of patients in the Hospital

	Brockville Hospital.			Cobourg Hospital.			Hamilton Hospital.			Kingston Hospital.		
	Male.	Female.	Total	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	356	348	704	...	155	155	656	639	1,295	311	282	593
In Residence, Oct. 31st, 1911	350	343	693	...	155	155	612	639	1,251	297	262	559
Admitted during year 1912:—												
By Warrant	7	6	13	...	4	4	56	15	71	9	2	11
By Medical Certificate	80	75	155	...	12	12	59	83	142	70	63	133
Total number under treatment during year	437	424	861	...	171	171	727	737	1,464	376	327	703
Discharges during year:—												
As recovered	23	29	52	...	...	...	11	14	25	23	22	45
As improved	17	10	27	...	...	...	25	32	57	17	22	39
As unimproved	2	1	3	...	...	...	1	.....	1	2	.....	2
As not insane	.....	.....	.....	...	...	...	.....	.....	.....	1	.....	1
Total number discharged during year	42	40	82	...	...	...	37	46	83	43	44	87
Died	37	33	70	...	16	16	27	51	78	30	25	55
Deported	1	1	2	...	...	...	7	1	8	2	.....	2
Eloped	8	.....	8	...	...	...	3	.....	3	4	.....	4
Transferred	.....	.....	.....	...	3	3	.....	1	1	1	1	2
Total number admitted since opening of Hospital	1,278	1,253	2,531	...	282	282	2,982	2,973	5,955	2,537	2,197	4,734
Total number discharged since opening of Hospital	429	495	924	...	6	6	1,086	1,266	2,352	1,102	1,015	2,117
Total number died since opening of Hospital	436	327	763	...	93	93	920	817	1,737	810	622	1,432
Total number deported since opening of Hospital	4	5	9	...	2	2	24	5	29	6	2	8
Total number eloped since opening of Hospital	37	2	39	...	...	...	97	9	106	79	1	80
Total number transferr'd since opening of Hospital	23	74	97	...	29	29	202	238	440	244	300	544
Total remaining in Hospital, Oct. 31st, 1912	349	350	699	...	152	154	653	638	1,291	296	257	553
Number of applications on fyle	6	8	14	...	...	...	10	4	14	48	44	92
Daily average population	358	354	712	...	153	153	632	639	1,271	301	261	562
Collective days' stay of all patients in residence during year	131,029	129,404	260,433	.....	59,962	55,962	231,488	234,172	465,640	110,377	95,601	205,978

No. 1.

for the year ending October 31st, 1912.

London Hospital.			Mimico Hospital.			Penetang Hospital.			Toronto Hospital.			Totals.		
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
511	555	1,066	310	310	620	166	204	370	426	426	852	2,736	2,919	5,655
533	561	1,094	320	295	615	163	204	367	440	466	906	2,715	2,925	5,640
40	11	51	49	14	63	8	1	9	80	29	109	249	82	331
61	95	156	34	52	86	2	11	13	98	121	219	404	512	916
634	667	1,301	403	361	764	173	216	389	618	616	1,234	3,368	3,519	6,887
25	31	56	25	16	41	.....	.....	.....	34	43	77	141	155	296
21	21	42	7	8	15	.....	1	1	32	34	66	119	128	247
4	4	8	1	.....	1	.....	.....	.....	5	3	8	15	8	23
1	.....	1	.....	.....	.....	.....	.....	.....	0	2	2	2	2	4
51	56	107	33	24	57	.....	1	1	71	82	153	277	293	570
51	42	93	42	18	60	6	8	14	48	26	74	241	219	460
2	2	4	1	1	2	.....	.....	.....	24	7	31	37	12	49
9	1	10	3	.....	3	1	.....	1	1	3	4	29	4	33
1	.....	1	11	7	18	1	3	4	1	19	20	15	34	49
3,565	3,245	6,810	1,506	1,430	2,936	252	303	555	5,879	5,593	11,472	17,999	17,276	35,275
1,507	1,431	2,938	458	444	902	17	22	39	2,919	3,010	5,929	7,518	7,689	15,207
1,156	985	2,141	429	384	813	47	66	113	1,596	1,291	2,887	5,394	4,585	9,979
10	3	13	35	5	40	8	.....	8	77	24	101	164	46	210
127	16	143	35	1	36	7	.....	7	136	19	155	518	48	566
245	244	489	236	285	521	8	11	19	678	770	1,448	1,636	1,951	3,587
520	566	1,086	313	311	624	165	204	369	473	479	952	2,769	2,957	5,726
3	11	14	34	21	55	.....	.....	.....	15	22	37	116	110	226
531	570	1,101	315	303	618	165	196	361	446	458	904	2,748	2,934	5,682
193,706	208,809	402,515	115,186	110,940	226,126	60,148	71,783	131,931	162,790	167,170	329,960	1,004,724	1,073,841	2,078,565

TABLE No. 2.

Showing social state and religion of patients admitted during the year and since opening of Hospital.

	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
SOCIAL STATE.						
Single	332	211	543	10,069	7,108	17,177
Married	278	309	587	7,762	9,875	17,637
Widowed	43	73	116	147	281	428
Divorced	.....	1	1	3	2	5
Separated	.....	.....	.....	7	2	9
Unascertained	.....	.....	.....	11	8	19
Total	653	594	1,247	17,999	17,276	35,275
RELIGION.						
Baptists	17	32	49	707	769	1,476
Congregationalists	4	3	7	127	140	267
Church of England	156	111	267	3,964	3,726	7,690
Methodists	133	147	280	3,839	4,046	7,885
Presbyterians	128	122	250	3,546	3,416	6,962
Roman Catholics	131	104	235	3,804	3,685	7,489
Other Denominations	46	51	97	1,303	1,090	2,393
Unascertained	38	24	62	709	404	1,113
Totals	653	594	1,247	17,999	17,276	35,275

TABLE No. 3,

Showing nativity of patients admitted during the year and since opening of Hospital.

Nativity.	Admissions of Year.	Admissions since opening.
Total born in Canada	849	20,826
Armenia	.....	1
Assyria	2	10
Austria	8	21
Australia	1	2
Belgium	.....	.....
Bulgaria	2	2
Central America	.....	.....
China	.....	4
Denmark	1	7
England	180	4,527
France	2	25
Finland	4	32
Galicia	.....	3
Germany	14	223
Greece	.....	3
Holland	1	3
Hungary	2	3
Ireland	54	5,026
Italy	6	41
Japan	.....	.....
Macedonia	.....	2
Other British Possessions	1	211
Norway	1	12
Roumania	1	5
Russia	20	86
Scotland	56	2,336
South America	.....	4
Switzerland	.....	6
Sweden	3	32
Turkey	.....	5
United States	32	941
West Indies	3	10
Unascertained and other countries	4	866
Totals	1,247	35,275

TABLE No. 4.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

Occupation.	Brockville Hospital.	Cobourg Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Penetanguishene Hospital.	Toronto Hospital.	Admitted this year.	Since opening.
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc.	1	....	1	4	4	3	....	7	20	558
Commercial:— Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc.	10	....	17	12	8	7	....	34	88	1,677
Agricultural and Pastoral:— Farmers, Gardeners, Stock Men, etc.	31	....	23	26	34	32	1	13	160	5,483
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc.	11	....	17	8	8	6	....	39	89	1,636
Mechanics, etc., at Sedentary Vocations:— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc.	9	....	12	1	11	8	1	24	66	2,195
Domestic Service:— Waiters, Cooks, Servants, etc.	12	5	11	7	21	6	5	25	92	3,544
Education and Higher Domestic Duties: Governesses, Teachers, Students, Housekeepers, Nurses, etc.	67	8	86	45	74	50	8	98	436	10,424
Miners, Marine Engineers, Railway Employees, Seamen, etc.	3	....	1	....	5	4	....	6	19	336
Laborers	24	....	45	20	30	18	7	56	200	4,924
No Occupation	....	3	....	17	12	15	....	19	66	2,105
Unascertained	....	....	....	4	....	....	....	7	11	2,393
Totals	168	16	213	144	207	149	22	328	1,247	35,275

TABLE No. 5.

Showing the Counties and Districts from which patients have been admitted during the year ending October 31st, 1911, and the Hospitals they were assigned to

Counties and Districts.	Number received under warrant process.	Number received from private houses by medical certificates.	Total number received from respective counties during the year.	Assigned to Brockville Hospital.	Assigned to Cobourg Hospital.	Assigned to Hamilton Hospital.	Assigned to Kingston Hospital.	Assigned to London Hospital.	Assigned to Mimico Hospital.	Assigned to Penetang Hospital.	Assigned to Toronto Hospital.
Algoma District	8	3	11	....	....	....	....	....	10	1	....
Brant	3	10	13	1	....	12	....	....	....	....	....
Bruce	8	6	14	....	....	....	....	13	....	....	1
Carleton	10	45	55	54	....	....	1	....	....	....	....
Dufferin	3	4	7	....	....	7	....	....	....	....	....
Dundas	1	9	10	10	....	....	....	....	....	....	....
Durham	3	8	11	....	1	....	10	....	....	....	....
Elgin	2	14	16	....	....	....	....	16	....	....	....
Essex	5	15	20	....	....	....	....	20	....	....	....
Frontenac	....	35	35	....	....	....	35	....	....	....	....
Glengarry	....	10	10	10	....	....	....	....	....	....	....
Grenville	....	11	11	11	....	....	....	....	....	....	....
Grey	5	13	18	....	....	14	....	2	2	....	....
Haldimand	4	.....	4	....	....	4	....	....	....	....	....
Halton	....	3	3	....	....	3	....	....	....	....	....
Hastings	3	23	26	....	....	....	26	....	....	....	....
Huron	3	14	17	....	....	....	....	17	....	....	....
Kent	4	14	18	....	....	....	....	18	....	....	....
Lambton	11	23	34	....	....	....	....	34	....	....	....
Lanark	....	20	20	19	....	1	....	....	....	....	....
Leeds	....	28	28	26	....	....	2	....	....	....	....
Lennox and Addington	....	11	11	....	....	....	11	....	....	....	....
Lincoln	4	9	13	....	....	13	....	....	....	....	....
Middlesex	7	42	49	....	....	....	....	49	....	....	....
Muskoka District	1	3	4	....	....	....	....	....	3	1	....
Nipissing District	14	6	20	....	....	....	....	....	18	2	....
Norfolk	2	4	6	....	....	6	....	....	....	....	....
Northumberland	3	17	20	....	2	....	17	....	....	....	2
Ontario	7	11	18	....	1	....	....	....	17	....	....
Oxford	6	11	20	....	....	2	....	17	....	....	....
Parry Sound District	4	5	9	....	....	....	....	....	9	....	....
Peel	....	9	9	....	1	....	....	....	8	....	....
Perth	5	13	18	....	....	....	....	18	....	....	....
Peterborough	6	12	18	....	1	....	5	....	11	1	....
Prescott	1	6	7	7	....	....	....	....	....	....	....
Prince Edward	1	7	8	....	....	....	8	....	....	....	....
Rainy River District	8	.....	8	....	....	1	....	....	5	2	....
Renfrew	....	26	26	3	....	....	23	....	....	....	....
Russell	....	6	6	6	....	....	....	....	....	....	....
Simcoe	9	1	37	....	1	1	....	1	26	5	3
Stormont	1	20	21	21	....	....	....	....	....	....	....
Thunder Bay District	5	4	9	....	....	....	....	....	9	....	....
Victoria	7	7	14	....	1	1	....	....	12	....	....
Waterloo	3	19	22	....	....	21	....	....	....	....	1
Welland	1	16	17	....	....	17	....	....	....	....	....
Wellington	3	14	17	....	....	16	....	....	1	....	....
Wentworth	41	49	90	....	....	89	....	....	....	....	1
York	117	244	361	....	8	2	....	2	18	10	321
Unascertained	2	6	8	....	....	2	6	....	....	....	....
Totals	331	916	1,247	168	16	213	144	207	149	22	328

TABLE No. 5a.

Showing the counties and districts from which the entire number of patients admitted to the Hospitals have been received, including the admissions of the present year; also the counties and districts from which the patients remaining in residence the 31st October, 1912, were originally admitted.

Counties and Districts.	Admissions of the year.	Total admissions.	Patients in residence 31st October, 1912.								
			Brockville Hospital	Cobourg Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Penetang Hospital.	Toronto Hospital.	Total.
Algoma District	11	206	....	....	5	....	1	34	17	6	63
Brant	13	563	....	1	88	....	4	2	1	2	98
Bruce	14	567	1	1	3	....	104	....	5	2	116
Carleton	55	1,240	204	2	3	45	.....	....	3	2	259
Dufferin	7	141	....	....	30	....	.....	3	1	3	37
Dundas	10	242	27	2	1	7	.....	....	....	....	37
Durham	11	520	2	7	2	8	1	6	1	13	40
Elgin	16	586	....	2	2	....	88	1	5	2	100
Essex	20	512	3	....	2	....	92	1	2	1	101
Frontenac	35	1,264	8	8	3	121	.....	2	4	4	150
Glengarry	10	324	30	....	3	10	.....	....	....	2	45
Grenville	11	386	42	....	2	3	.....	....	....	1	48
Grey	18	696	....	6	113	1	9	9	12	6	156
Haldimand	4	363	1	....	45	....	.....	2	....	....	48
Halton	3	394	1	1	41	....	1	3	1	4	52
Hastings	26	832	11	4	.....	82	1	3	3	3	107
Huron	17	861	2	3	1	....	116	1	5	6	134
Kent	18	581	3	1	2	1	95	2	....	....	104
Lambton	34	802	4	2	4	....	105	2	2	2	121
Lanark	20	636	75	1	.....	15	.....	....	1	....	92
Leeds	28	548	88	....	2	15	.....	....	2	2	109
Lennox and Addington	11	441	3	1	.....	44	.....	....	4	1	53
Lincoln	13	559	1	3	76	....	....	1	2	4	87
Middlesex	49	2,004	5	8	6	1	277	2	6	....	305
Muskoka District	4	164	....	....	4	....	.....	12	14	2	32
Nipissing District	20	164	1	1	12	....	.....	42	5	1	62
Norfolk	6	392	....	....	49	1	.....	....	2	....	52
Northumberland	20	737	3	10	2	65	.....	8	10	10	108
Ontario	18	794	2	7	6	....	1	54	23	15	108
Oxford	20	684	1	1	5	....	72	3	3	3	88
Parry Sound District	9	95	....	....	3	....	.....	20	1	2	26
Peel	9	477	1	2	9	....	.....	33	3	11	59
Perth	18	695	3	2	5	....	86	3	2	....	101
Peterborough	18	520	1	9	.....	5	.....	61	6	8	90
Prescott	7	288	46	....	2	3	.....	....	2	....	53
Prince Edward	8	260	....	2	4	35	1	1	....	1	44
Rainy River District	8	70	....	....	5	....	.....	13	6	....	24
Renfrew	26	481	10	1	.....	58	.....	....	3	1	73
Russell	6	103	26	....	1	1	.....	....	....	1	29
Simcoe	37	1,105	2	8	32	1	4	75	73	16	211
Stormont	21	412	60	1	5	8	.....	....	1	2	77
Thunder Bay District	9	94	....	....	7	1	1	19	2	2	32
Victoria	14	664	....	5	3	1	.....	60	9	6	84
Waterloo	22	526	1	....	125	....	4	1	1	7	139
Welland	17	497	2	....	75	1	.....	1	1	4	84
Wellington	17	922	....	2	122	....	3	1	6	8	142
Wentworth	90	2,046	3	4	330	5	4	140	7	7	500
York	361	7,313	23	43	51	10	13	1	98	773	1,012
Unascertained	8	523	3	1	8	5	3	....	14	6	40
New Brunswick	.....	.....	....	....	1	....	.....	....	....	....	1
United States	.....	.....	....	....	1	....	.....	....	....	....	1
Totals	1,247	35,275	699	152	1,291	553	1,086	624	369	952	5,726

TABLE No. 6.

Showing the assigned causes of insanity in the cases admitted during year.

Causes.	Men.	Women	Total.	Inherited Predisposition.			Un-ascertained.
				Men.	Women.	Total.	
MORAL.							
Adverse Conditions (such as loss of friends, business troubles, etc.)	41	25	66	38	41	79	164
Mental Strain, Worry and Overwork (not included in above)	56	81	137	20	22	42	12
Religious Excitement	8	9	17	6	6	12	1
Love Affairs, including seduction	7	19	26	7	12	19	1
Fright and Nervous Shock	9	13	22	5	9	14	3
PHYSICAL.							
Alcoholism	61	9	70	36	6	42	12
Sexual Excess	3	.....	3	2	.....	2	.....
Venereal Diseases	21	4	25	1	.....	1	7
Masturbation	10	.....	10	7	.....	7	2
Insolation	3	2	5	1	.....	1	2
Accident or Injury	9	6	15	5	2	7	5
Pregnancy	.....	18	18	.....	8	8	7
Parturition and Puerperium	.....	18	18	.....	9	9	4
Lactation	.....	5	5	.....	1	1	2
Climacteric Period	.....	15	15	.....	5	5	3
Fevers	1	4	5	1	1	2	2
Privation and Overwork	27	16	43	13	8	21	21
Epilepsy	17	12	29	9	6	15	6
Other Convulsive Diseases	4	2	6	.....	1	1	.....
Diseases of Brain and Skull	10	5	15	6	2	8	5
Senility	65	57	122	13	19	32	44
Exophthalmic Goitre	.....	.....	.....	.....	2	2	.....
Epidemic Influenza	1	.....	1	.....	1	1	.....
Abuse of Drugs	5	5	10	.....	.....	.....	2
Loss of Special Sense	2	.....	2	.....	.....	.....	.....
Uræmia	.....	.....	.....	1	.....	1	.....
Other Auto-infection	2	4	6	.....	2	2	.....
Other Bodily Diseases	18	15	33	11	8	19	13
HEREDITARY.							
Congenital Defect	45	49	94	45	74	119	23
Unascertained	226	199	425	234	181	415	16
Not Insane	2	2	4	1	2	3	.....
Totals	653	594	1,247	462	428	890	357

TABLE No. 7.

Showing hereditary tendency to insanity in patients admitted during the year.

	Admitted During Year.		
	Male.	Female.	Total.
Paternal Branch	49	53	102
Maternal Branch	54	47	101
Paternal and Maternal Branches	20	34	54
Collateral Branches	28	43	71
No hereditary tendency	159	150	309
Unascertained	342	267	609
Not insane	1	.....	.....
Totals	653	594	1,247

TABLE No. 8.

Showing summary of probational discharges during the year.

	Male.	Female.	Total.
Number Granted Probational Discharge	230	287	517
Discharged, Recovered while on Probation	82	117	199
" Improved " "	59	82	141
" Unimproved " "	1	1	2
Died " "	2	.....	2
Returned to Hospital	50	51	101
Absent on Probation on October 31st, 1911	36	36	72

TABLE No. 9.

Showing the causes of death of patients who died during the year ending October 31st, 1912.

Cause of Death.	Brockville Hospital.	Cobourg Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Penetang Hospital.	Toronto Hospital.	Total.
Specific Infectious Diseases:—									
Typhoid Fever	.....	.....	1	.....	.....	1	.....	.....	2
Influenza	.....	.....	.....	.....	.....	.....	.....	1	1
Cerebro-spinal Meningitis	1	.....	.....	.....	.....	.....	.....	.....	1
Diphtheria	.....	.....	.....	.....	.....	.....	.....	.....	.....
Erysipelas	.....	.....	.....	.....	.....	.....	.....	.....	.....
Septicæmia	1	.....	3	1	3	.....	1	2	11
Dysentery	2	3	.....	.....	.....	.....	.....	.....	5
Syphilis	.....	.....	.....	.....	.....	1	.....	.....	1
Tuberculosis	15	2	3	12	10	3	4	6	55
Toxemia	.....	.....	.....	.....	.....	.....	.....	1	1
Constitutional Diseases:—									
Rheumatism	.....	.....	.....	.....	.....	1	.....	.....	1
Arthritis Deformans	.....	.....	.....	.....	.....	.....	.....	.....	.....
Diabetes Mellitus	.....	.....	.....	1	.....	.....	.....	.....	1
Diseases of the Digestive System:—									
Mouth, salivary glands	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pharynx	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tonsils	.....	.....	.....	.....	.....	.....	.....	.....	.....
Œsophagus	.....	.....	.....	.....	.....	.....	.....	.....	.....
Enteritis	.....	.....	.....	.....	.....	.....	.....	.....	.....
Diseases of the Intestines:—	.....	.....	.....	.....	1	.....	.....	.....	1
Diseases of the Liver	.....	.....	.....	.....	2	.....	.....	2	4
Diseases of the Pancreas	.....	.....	.....	1	.....	.....	.....	1	2
Diseases of the Peritoneum	.....	.....	.....	1	3	2	.....	1	7
Intestinal obstruction	.....	.....	.....	1	.....	.....	.....	.....	1
Diseases of the Respiratory System:—									
Diseases of the Nose and Larynx	.....	.....	.....	.....	.....	.....	.....	.....	.....
" " Bronchi	.....	.....	.....	.....	.....	.....	.....	.....	.....
" " Lungs	6	.....	9	11	12	13	.....	3	54
" " Pleura	.....	.....	.....	.....	.....	.....	.....	1	1
Diseases of the Circulatory System:—									
Diseases of the Pericardium	.....	.....	.....	1	.....	.....	.....	2	3
" " Heart	4	3	9	3	3	7	4	10	43
Arterio-sclerosis	7	.....	4	1	2	.....	.....	1	15
Aneurism	.....	.....	.....	.....	.....	.....	.....	.....	.....
Diseases of the Blood and Ductless Glands:—	.....	.....	.....	.....	1	.....	.....	.....	1
Anæmia	.....	.....	1	.....	2	.....	.....	.....	3
Pernicious Anæmia	.....	.....	.....	.....	1	1	.....	.....	2
Leucæmia	.....	.....	.....	.....	.....	1	.....	.....	1
Exophthalmic Goitre	.....	.....	.....	1	.....	.....	.....	1	2
Diseases of the Genito-Urinary System	1	.....	3	1	3	2	1	2	13

TABLE No. 9—*Continued.*

Showing the causes of death of patients who died during the year ending October 31st, 1912.

Cause of Death.	Brockville Hospital.	Cobourg Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Penetang Hospital.	Toronto Hospital.	Total.
Brought forward	37	8	33	35	43	32	10	34	232
Diseases of the Nervous System:—									
Diseases of the Nerves									
" " Spinal Cord						3		1	4
" " Meninges								1	1
Organic Diseases of the Brain, (Tumor, Abscess, Embolism, Thrombosis, Hæmorrhage, and other gross lesions)	2	1	4	5	8	7	1	1	29
Functional Nervous Diseases, (Paralysis Agitans, Chorea, Eclampsia, Hysteria)	1				1				2
Epilepsy	6		4	2	7	3	1	2	25
Mental Diseases:—									
Exhaustion of Acute Mental Disease			6	2		3		1	12
Exhaustion of Chronic Mental Disease	10	2	11						23
General Paresis	2		6	4	14	4		15	45
Intoxications:—									
Alcoholism									
Morphinism									
Metallic Poisoning									
Heat Stroke					1			1	2
Debility of Old Age	9	3	6	3	14	3	2	16	56
Accident	1		1		1				3
Suicide			2	1	1	2		1	7
Surgical Diseases		1	5						6
Gynæcological Diseases									
Malignant New Growths, or Cancer	2	1		3	3	1		1	11
Unknown (died on probation)						2			2
Totals	70	16	78	55	93	60	14	74	460

TABLE No. 10.

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses —									
(a) Fever Delirium	....	....	....	....	....	....	....	2	2
(b) Infection Delirium	4	3	7	2	2	4	1	1	2
(c) Post Infection Psychoses	....	2	2	1	....	1	....	1	1
Exhaustion Psychoses :—									
(a) Collapsed Delirium	5	7	12	3	4	7	1	1	2
(b) Acute Confusional Psychoses	3	9	12	3	11	14	....	1	1
(c) Neurasthenia	9	2	11	8	2	0	....	....	....
Intoxication Psychoses :—									
(a) Acute Intoxications	....	2	2	....	....	....	....	....	....
(b) Chronic "	1	2	3	....	1	1	....	....	....
(a) Alcoholism (acute and chronic)	38	8	46	26	9	35	3	....	3
(b) Delirium Tremens	2	1	3	1	1	2	....	....	....
(c) Korsakow's Psychoses	....	3	3	....	2	2	....	....	....
(d) Acute Alcoholic Hallucinosis	6	....	6	1	1	2	....	....	....
(e) Alcoholic Hallucinatory Dementia	1	....	1	....	....	....	....	....	....
(f) " Paranoia	3	1	4	1	....	1	....	....	....
(g) " Paresis	1	9	10	....	....	....	....	....	....
(h) Morphinism	3	....	3	3	4	7	....	....	....
(i) Cocainism	....	....	....	....	1	1	....	....	....
Thyroigenous Psychoses :—									
(a) Mixœdematous Psychoses	....	3	3	....	1	1	....	....	....
(b) Cretinism	....	....	....	....	....	....	....	1	1
(c) Hyparthyroganous	2	2	4	1	3	4	....	....	....
Dementia Præcox :—									
(a) Hebaphrenic	108	77	185	45	30	75	28	24	52
(b) Catatonic	67	107	174	38	65	103	16	18	34
(c) Paranoid	56	59	115	36	22	58	18	16	34
General Paresis	61	9	70	8	2	10	49	4	53
Organic Dementias :—									
(a) Cerebral Sclerosis	1	....	1	....	1	1	1	1	2
(b) Huntingdon's Chorea	....	3	3	....	....	....	1	2	3
(c) Multiple Sclerosis	3	1	4	1	1	2	....	....	....
(d) Cerebral Syphilis	3	....	3	1	....	1	....	....	....
(e) Tabetic Psychoses	1	1	2	....	....	....	....	....	....
(f) Arterio-sclerotic Psychoses	7	3	10	1	....	1	2	2	4
(g) Cerebral Tumor, Abscess, Hæmorrhage	9	....	9	1	....	1	3	2	5
(h) Tramutic Dementia	....	....	....	....	....	....	....	....	....
Involution Psychoses :—									
(a) Melancholia	22	41	63	11	27	38	7	11	18
(b) Pre-senile Delusional Psychoses	5	16	21	3	11	14	3	5	8
(c) Senile Dementia	62	70	132	14	12	26	52	70	122
(d) Presbyphrenia	....	1	1	....	....	....	....	....	....
Manic Depressive Psychoses ;—									
(a) Manic States	60	55	115	39	31	70	9	10	19
(b) Depressed States	42	44	86	25	30	55	8	14	22
(c) Mixed States	3	6	9	4	6	10	11	12	23

TABLE No. 10.— *Continued.*

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Paranoia	6	4	10	2	....	2	2	....	2
Psychoses from Constitutional Neuroses:—									
(a) Epileptic Psychoses	23	16	39	5	3	8	22	14	36
(b) Hysterical Psychoses	1	6	7	1	4	5	....	....	....
(c) Sexualis Psychopathia	1	....	.....	....	....	....	....	....	....
States of Deficient Mental Development:—									
(a) Imbecility	27	21	48	14	10	24	3	5	8
(b) Idiocy	1	1	2	....	....	....	....	1	1
Not Diagnosed	4	3	7	3	1	4	1	1	2
Not Insane	2	2	4	2	2	4	....	....	....
Totals	653	594	1,274	*304	†300	604	241	219	440

* Includes 27 deports.
† " 7 "

TABLE No. 11.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1912.	Periods of treatment of those who were discharged recovered during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treatment of those who died during the year.
Under 1 month	223	119	16	17	7	52
From 1 to 2 months	157	84	21	19	2	23
" 2 " 3 "	105	78	27	19	3	8
" 3 " 4 "	73	78	35	17	1	11
" 4 " 5 "	42	72	24	13	3	16
" 5 " 6 "	47	74	30	18	3	13
" 6 " 9 "	69	184	56	38	1	24
" 9 "12 "	58	150	33	33	.....	21
" 12 "18 "	59	310	17	32	.....	25
" 18 months to 2 years	48	201	11	13	1	23
" 2 to 3 years	77	376	12	26	2	29
" 3 " 4 "	42	317	7	4	.....	24
" 4 " 5 "	43	317	1	4	1	21
" 5 " 10 "	71	1,179	6	14	.....	47
" 10 " 15 "	30	787	.....	1	.....	41
" 15 " 20 "	16	624	1	4	.....	23
" 20 years and upwards.	27	776	.....	3	1	59
Unknown	47	.....	.....	.....	.....	.....
Not insane	3	.....	.....	.....	.....	.....
Totals	1,247	5,726	297	†275	‡25	460

* Includes 1 deports. † Includes 28 deports. ‡ Includes 2 deports.

TABLE

Showing the general movement and result of treatment of patients in the Hospitals
1882, to the 31st

—	Average daily Population.			Number of patients admitted.			Number of patients recovered.			Patients discharged improved, unimproved and deported.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Average for 5 years 1882–1886	**1,312**	**1,330**	**2,642**	**264**	**234**	**498**	**82**	**87**	**169**	**36**	**40**	**76**
Average for 5 years 1887–1891	**1,586**	**1,532**	**3,118**	**314**	**306**	**620**	**88**	**85**	**173**	**38**	**46**	**84**
Average for 5 years 1892–1896	**1,894**	**1,932**	**3,826**	**354**	**394**	**748**	**106**	**111**	**217**	**44**	**55**	**99**
1897	2,097	2,157	4,254	507	398	905	107	116	223	42	52	94
1898	2,153	2,215	4,368	349	411	759	122	129	251	54	59	113
1899	2,183	2,258	4,441	368	343	711	116	145	261	48	47	95
1900	2,197	2,288	4,485	352	370	722	121	133	254	28	44	72
1901	2,236	2,368	4,604	372	370	740	145	130	275	26	31	57
Average for 5 years 1897–1901	**2,173**	**2,257**	**4,430**	**389**	**379**	**767**	**122**	**131**	**253**	**40**	**46**	**86**
1902	2,249	2,461	4,710	381	578	959	121	139	260	51	61	112
1903	2,283	2,490	4,773	404	416	820	146	176	322	41	60	101
1904	2,346	2,551	4,897	486	537	1,023	146	156	302	39	60	99
1905	2,396	2,616	5,012	511	538	1,049	149	166	315	64	57	121
1906	2,478	2,699	5,177	517	568	1,085	142	172	314	79	76	155
Average for 5 years 1902–1906	**2,350**	**2,564**	**4,914**	**456**	**527**	**983**	**141**	**162**	**303**	**55**	**63**	**118**
1907	2,511	2,747	5,258	568	528	1,096	146	166	312	118	97	215
1908	2,586	2,814	5,400	577	547	1,124	115	109	224	147	99	246
*1909	2,629	2,871	5,500	438	405	843	152	125	277	100	97	197
1910	2,662	2,879	5,541	567	573	1,140	146	169	315	126	138	264
1911	2,708	2,884	5,592	560	580	1,140	135	164	299	138	142	280
Average for 5 years 1907-1911	**2,619**	**2,839**	**5,448**	**542**	**52**	**1,069**	**139**	**147**	**286**	**126**	**114**	**240**
1912	2,748	2,934	5,682	653	594	1,247	141	155	296	171	148	319

* 10 months ending October 31st, 1909.

No. 12.

for the Insane of the Province during the thirty-one years from January 1st, October, 1912.

Number of patients who died.			Percentage of recoveries to average daily population.			Percentage of deaths to average daily population.			Number of patients remaining in Hospital at end of each year.		
Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
91	**63**	**154**	**6.25**	**6.54**	**6.39**	**6.94**	**4.74**	**5.83**	**1,329**	**1,446**	**2,775**
88	**83**	**171**	**5.56**	**5.88**	**5.55**	**5.56**	**5.42**	**5.48**	**1,600**	**1,601**	**3,201**
124	**93**	**217**	**5.59**	**5.75**	**5.67**	**6.55**	**4.82**	**5.69**	**1,910**	**1,955**	**3,865**
145	117	262	5.10	5.38	5.24	6.91	5.42	6.17	2,116	2,163	4,279
130	108	238	5.67	5.88	5.77	6.04	4.88	5.46	2,152	2,236	4,388
160	132	292	5.31	6.42	5.87	7.28	5.85	6.57	2,176	2,251	4,427
136	133	269	5.51	5.82	5.67	6.19	5.81	6.00	2,198	2,300	4,498
150	107	257	6.48	5.47	5.97	6.70	4.52	5.61	2,236	2,368	4,604
144	**120**	**264**	**5.61**	**5.79**	**5.70**	**6.22**	**5.29**	**5.96**	**2,175**	**2,264**	**4,439**
158	129	287	5.38	5.65	5.52	7.02	5.24	6.09	2,248	2,464	4,712
150	139	289	6.39	7.07	6.75	6.57	5.58	6.05	2,287	2,492	4,779
172	163	335	6.22	6.12	6.18	7.35	6.39	6.84	2,328	2,543	4,871
141	147	288	6.22	6.34	6.28	5.88	5.62	5.75	2,435	2,657	5,092
173	184	357	5.73	6.37	6.06	5.73	6.37	6.06	2,491	2,720	5,211
159	**152**	**311**	**5.99**	**6.31**	**6.15**	**6.51**	**5.84**	**6.18**	**2,358**	**2,575**	**4,933**
197	176	373	5.82	6.04	6.01	7.84	6.41	7.09	2,549	2,765	5,314
193	158	351	4.45	3.87	4.15	7.46	5.61	6.50	2,614	2,877	5,491
132	127	259	5.89	4.38	5.11	5.02	4.42	4.71	2,634	2,897	5,531
174	164	338	5.48	5.87	5.69	6.54	5.69	6.10	2,688	2,921	5,609
200	215	415	4.99	5.68	5.33	7.38	7.45	7.42	2,715	2,925	5,640
179	**168**	**347**	**5.17**	**5.83**	**5.50**	**6.85**	**5.92**	**6.38**	**2,640**	**2,877**	**5,517**
241	219	460	5.13	5.29	5.21	8.77	7.46	8.09	2,769	2,957	5,726

TABLE No. 13.

Showing the percentage of recoveries on the average population and admissions for the year ending October 31st, 1912.

Hospitals.	On average population.			On admission.		
	Average population.	Recovered.	Percentage.	Admissions.	Recovered.	Percentage.
Brockville	712	52	7.30	168	52	30.94
Cobourg	153	.....	.....	16	.....	.....
Hamilton	1,271	25	1.97	213	25	11.74
Kingston	562	45	8.01	144	45	31.25
London	1,101	56	5.09	207	56	27.05
Mimico	618	41	6.03	149	41	27.52
Penetang	361	.....	.....	22	.....	.....
Toronto	904	77	8.52	328	77	23.70
Totals	5,682	296	5.21	1,247	296	23.79

TABLE No. 14.

Showing summary of discharges during the year.

——	Male.	Female.	Total.
Discharged, Recovered	141	155	296
" Improved	119	128	247
" Unimproved	15	8	23
" Deported	37	12	49
" Eloped	29	4	33
" Not Insane	2	2	4
Total Number of Discharges	343	309	652

TABLE No. 15.

Deaths in Hospitals.

Hospitals.	No. of Deaths.	Daily average population.	Percentage of deaths on daily average population.
Brockville	70	712	10.17
Cobourg	16	153	10.46
Hamilton	78	1,271	6.14
Kingston	55	562	9.79
London	93	1,101	8.45
Mimico	60	618	9.71
Penetang	14	361	3.88
Toronto	74	904	8.18
Totals	460	5,682	8.09

TABLE No. 16.

The following table shows the number of beds in each of the Hospitals, number in residence, number of vacancies, over population and applications on fyle at close of official year.

Asylums.	Number of beds.			Number in residence on 31st October, 1912.			Number of vacancies.			Over population.			Applications on fyle.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brockville	356	348	704	349	350	699	7	.....	7	.....	2	2	6	8	14
Cobourg	.....	155	155	.....	152	152	.....	3	3	.....	.....	.....	.....	.....	.....
Hamilton	656	639	1,295	653	638	1,291	3	1	4	.....	.....	.....	10	4	14
Kingston	311	282	593	296	257	553	15	25	40	.....	.....	.....	48	44	92
London	511	555	1,066	520	566	1,086	.....	.....	.....	9	11	20	3	11	14
Mimico	310	310	620	313	311	624	.....	.....	.....	3	1	4	34	21	55
Penetang	166	204	370	165	204	369	1	.....	1	.....	.....	.....	.....	.....	.....
Toronto	426	426	852	473	479	952	.....	.....	.....	47	53	100	15	22	37
Totals	2,736	2,919	5,655	2,769	2,957	5,726	26	29	55	59	67	126	116	110	226

TABLE No. 17.

Showing the number of officers and employees in each and all of the Hospitals classified according to the duties performed.

Occupation.	Brockville Hospital.	Cobourg Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Penetang Hospital.	Toronto Hospital.	Total.
Medical Superintendents	1	1	1	1	1	1	1	1	8
Assistant Superintendents	1	.....	1	1	1	1	.....	1	6
Assistant Physicians	1	1	3	3	3	2	1	3	17
Trained Nurses	1	1	1	1	1	1	.....	1	7
Dentists	.....	.....	.....	.....	.....	1	.....	1	2
Bursars	1	1	1	1	1	1	1	1	8
Bursars' Clerks	1	.....	1	.....	1	1	.....	1	5
Stenographers and Portresses.	1	.....	3	1	3	1	1	3	13
Stewards	.....	.....	.....	.....	.....	.....	.....	.....	.....
Storekeepers	1	.....	1	1	1	1	1	1	7
Matrons	1	1	1	1	1	1	1	1	8
Assistant Matrons	.....	.....	2	.....	1	.....	.....	.....	3
Housekeepers	.....	.....	.....	1	.....	.....	.....	.....	1
Cooks	5	3	10	4	8	4	4	7	45
Laundresses	4	2	6	3	5	4	3	7	34
Housemaids	4	2	6	3	6	4	3	9	37
Seamstresses	1	1	1	1	2	1	1	1	9
Tailoresses	.....	.....	.....	.....	1	1	1	.....	3
Bakers	1	1	1	1	1	1	1	1	8
Assistant Bakers	.....	.....	.....	.....	.....	.....	.....	.....	.....
Butchers	1	.....	1	1	1	1	.....	1	6
Tailors	1	.....	1	1	1	1	.....	1	6
Shoemakers	.....	.....	.....	.....	1	.....	.....	.....	1
Laundrymen	1	.....	.....	1	1	1	1	.....	5
Engineers and Assistants	2	1	2	3	4	1	3	2	18
Stokers	5	2	9	4	13	4	3	6	46
Bricklayers and Masons	1	.....	1	2	2	1	1	1	9
Carpenters	2	1	2	2	2	1	1	1	12
Painters	1	.....	1	1	1	1	1	1	7
Farmers	1	.....	2	1	1	1	1	1	8
Farmers' Assistants	2	.....	8	2	6	5	2	2	27
Gardeners	1	1	1	1	1	1	1	1	8
Assistant Gardeners	.....	.....	1	1	3	2	2	2	11
Porters	.....	.....	1	.....	.....	.....	.....	.....	1
Chief Attendants, Male	1	.....	1	1	4	1	.....	1	9
Supervisors, Male	7	.....	14	6	8	8	1	10	54
Attendants, Male	39	.....	57	27	41	28	10	37	239
Chief Attendants, Female	.....	1	2	.....	1	.....	.....	2	6
Supervisors, Female	9	3	13	13	8	6	3	12	67
Attendants, Female	32	9	32	34	40	23	9	51	230
Musical Instructresses	.....	.....	.....	1	.....	.....	.....	1	2
Totals	130	32	188	125	176	112	58	172	993

TABLE No. 18.

Statement of Revenue from Paying Patients and Farm and Miscellaneous Revenue.

Hospital.	No. of Paying Patients.	From Paying Patients.	From Farm and Miscellaneous.	Total.
		$ c.	$ c.	$ c.
Brockville	196	15,038 37	440 28	15,478 65
Cobourg	11	851 38	191 02	1,042 40
Hamilton	379	40,521 67	517 05	41,038 72
Kingston	195	16,809 16	733 78	17,542 94
London	406	36,877 40	1,049 24	37,926 64
Mimico	214	19,190 34	1,804 58	20,994 92
Penetanguishene	33	2,532 85	587 74	3,120 59
Toronto	529	57,275 76	1,007 85	58,283 61
Totals	1,963	189,096 93	6,331 54	195,428 47
Revenue from Railway Taxation, under 6 Edward VII., Cap. 9, Sec. 4, Sub-sec. 2	.....	.....	.....	116,896 70
	.....	.....	.....	312,325 17

TABLE No. 19.

COMPARATIVE STATEMENT OF REVENUE.

The following statement shows the revenue received from the Hospitals for each year since 1871, together with the number of paying patients in the Hospitals from year to year:

——	No. of Paying Patients.	Revenue.	Increase.	Decrease.
		$ c.	$ c.	$ c
For the year ending September 30, 1871..	118	14,045 30	.....	.....
" " 1872..	139	19,255 80	5,219 50	.....
" " 1873..	171	16,660 61	.....	2,595 19
" " 1874.	182	20,035 77	3,373 15	.....
" " 1875..	231	21,875 92	1,840 15	.....
" " 1876..	256	21,175 93	.....	699 99
" " 1877..	323	28,093 58	6,917 65	.....
" " 1878..	334	30,103 75	2,010 17	.....
" " 1879..	343	32,398 26	2,794 51	.....
" " 1880..	387	37,653 81	4,755 55	.....
" " 1881..	414	41,066 54	3,412 73	.....
" " 1882..	475	43,937 64	2,871 10	.....
" " 1883..	538	59,922 59	15,984 95	.....
" " 1884..	496	48,135 18	.....	11,787 41
" " 1885..	509	49,620 93	1,485 73	.....
" " 1886..	516	53,030 05	4,309 12	.....
" " 1887..	514	48,742 53	.....	4,287 52
" " 1888..	538	59,638 16	10,895 03	.....
" " 1889..	708	66,670 64	7,032 48	.....
" " 1890..	562	62,754 16	.....	3,916 48
" " 1891..	577	48,507 52	.....	14,246 14
" " 1892..	632	73,240 61	14,733 19	.....
" " 1893..	661	73,415 54	174 93	.....
" " 1894..	697	72,722 04	.....	693 50
" " 1895..	743	68,290 31	.....	4,431 73
" " 1896..	904	97,898 19	29,607 88	.....
" " 1897..	844	100,581 25	2,683 06	.....
" " 1898..	770	72,042 44	.....	28,538 81
" " 1899..	778	74,364 54	2,322 10	.....
" " 1900..	846	81,650 87	7,286 33	.....
" " 1901..	902	90,677 46	9,026 59	.....
" " 1902..	959	101,076 20	10,398 74	.....
" " 1903..	1,029	97,416 03	.....	3,660 17
" " 1904..	1,111	106,167 49	8,751 46	.....
" " 1905..	1,211	114,915 59	8,748 10	.....
For the 3 mos. ending December 31, 1905..	.....	54,897 06	27,403 60	.....
For the year ending December 31, 1906..	1,732	165,404 08	50,488 49	.....
" " 1907..	1,797	166,419 63	1,015 55	.....
" " 1908..	1,878	146,148 77	.....	3,739 24
For the 10 mos. ending October 31, 1909..	1,613	140,048 18	.....	.....
" " year " " 1910..	1,891	168,914 54	.....	.....
" " " " " 1911..	1,899	183,077 18	14,162 64	.....
" " " " " 1912..	1,963	189,096 93	6,019 75	.....

In addition $116,896.70 revenue for the year ending Oct. 31, 1912, was derived from Railway Taxation under 6 Edward VII. c. 9.

Revenue from Woodstock and Orillia not included in 1908, 1909, 1910, 1911 and 1912.

TABLE No. 20.

STATEMENT.

Showing the Expenditure on Maintenance under the different headings of the estimates for the year ending October 31st, 1912.

Headings of Estimates.	Brockville Hospital.	Cobourg Hospital.	Hamilton Hospital.	Kingston Hospital.	London Hospital.	Mimico Hospital.	Penetang. Hospital.	Toronto Hospital.
	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.	$ c.
Medicines	1,094 38	144 20	1,027 35	1,199 24	1,181 57	955 52	232 68	1,040 64
Provisions	40,128 92	7,216 57	70,738 00	35,074 82	54,954 37	36,215 79	16,024 20	67,363 23
Heat and Light	18,320 29	3,069 71	24,859 75	14,973 01	21,431 37	13,682 09	7,841 78	16,641 98
Clothing	6,489 16	693 32	8,010 06	5,209 40	9,299 51	5,505 48	1,834 82	5,994 16
Laundry	1,995 76	462 90	2,576 76	2,158 52	3,589 64	1,977 15	368 31	3,203 43
Repairs	5,798 17	528 65	8,999 06	6,400 50	9,687 30	5,973 19	1,440 57	6,930 62
Office expense	1,065 29	254 18	1,213 09	1,221 76	1,390 10	982 70	308 38	1,132 25
Farm expense	6,867 25	104 35	8,727 50	6,330 83	6,057 76	3,339 43	3,041 76	2,530 00
Miscellaneous expense	5,241 21	961 47	6,498 00	1,424 22	2,070 94	1,384 53	2,307 79	4,448 35
Total expense	87,000 43	13,345 35	132,649 57	73,992 30	109,662 56	70,015 88	33,400 29	109,284 66
Salaries	41,425 82	12,467 86	62,107 09	43,699 54	60,741 71	40,867 55	23,913 38	54,093 89
Grand Totals	128,426 25	25,813 21	194,756 66	117,691 84	170,404 27	110,883 43	57,413 67	163,378 55

TABLE

Comparative Statement of Average Maintenance Cost per Capita

	Brockville.		Cobourg.		Hamilton.	
	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.
Days' residence of patients	251,398	246,745	55,994	55,276	456 711	446,803
Average number of patients	6 6.81	676.01	152.99	15 .39	1,247.84	1,224.11
	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.
MEDICINES	.45	.44	.26	.27	.23	.27
Medicines and Medical comforts	.45	.44	.26	.27	.23	.27
PROVISIONS	14.98	13.39	9.01	9.22	14.66	13.44
Breakfast Foods and Cereals	.28	.35	.19	.27	.25	.25
Butter	1.83	1.84	1.13	1.12	2.31	2.15
Coffee and Tea	.47	.43	.41	.49	.45	.41
Eggs	.57	.45	.43	.27	.31	.30
Flour, Bread, etc	1.88	1.71	1.43	1.59	1.82	1.64
Fruit and Vegetables—Fresh	.33	.40	.31	.38	.74	.63
" " Canned and Dried	.56	.48	.19	.26	.42	.44
Milk	1.77	1.43	1.45	1.32	1.23	1.29
Potatoes	1.05	.69	.33	.30	.84	.69
Salt, Spices, Pickles, etc	.07	.08	.03	.02	.08	.09
Sugar and Syrup	.94	.99	.54	.44	.86	.77
Unenumerated Groceries	.88	.55	.45	.57	.81	.70
Butchers' Meat	3.98	3.65	2.07	2.13	3.86	3.43
Fish and Fowl	.37	.34	.05	.06	.68	.65
HEATING AND LIGHTING	7.12	7.15	4.72	4.74	5.65	6.53
Coal and Wood	5.74	5.77	3.82	3.83	4.95	5.51
Electricity	.06	.03	.89	.90	.42	.71
Gas	1.27	1.30	.....	.....	.26	.29
Oil, Candles, Matches, etc	.05	.05	.01	.01	.02	.02
CLOTHING	2.41	2.21	1.07	.90	1.49	1.50
Clothing—Dry Goods	1.95	1.74	.83	.68	1.21	1.27
Boots, Shoes, etc	.46	.47	.24	.22	.28	.23
LAUNDRY AND CLEANING	.69	.71	.85	.82	.59	.63
Brushes, Brooms and Mops	.15	.17	.06	.05	.10	.09
Miscellaneous Expenses	.17	.16	.11	.13	.18	.14
Soap	.37	.38	.68	.64	.31	.40
REPAIRS AND REPLACEMENTS	2.01	1.85	.89	1.14	2.00	1.77
Furniture and Furnishings	1.81	1.65	.61	.83	1.45	1.29
Plant	.20	.20	.28	.31	.55	.48
OFFICE EXPENSES	.42	.38	.43	.37	.26	.22
Miscellaneous Items	.21	.16	.15	.12	.14	.10
Postage	.11	.12	.11	.06	.06	.05
Telephone and Telegraph	.10	.10	.17	.19	.06	.07
SALARIES	16.48	14.69	22.27	22.64	13.59	13.03
Supt. and Physicians	2.06	2.20	5.95	6.02	1.76	1.78
Bursar and Assistants	1.54	1.55	2.28	2.67	1.04	1.04
Matron and Assistants	2.16	1.98	4.86	4.86	2.00	1.99
Engineer and Assistants	1.38	1.28	3.40	3.17	1.06	1.02
Artisans, not Domestic	.82	.77	.53	.54	.53	.53
Farm and Garden	1.03	1.02	1.07	1.09	1.05	1.02
Teachers	.....	.....	.....	.....	.....	.....
Attendants	4.87	3.35	.....	.....	4.04	3.67
Nurses	2.62	2.54	4.18	4.29	2.11	1.98

No. 21.

per Day for the Twelve Months ending October 31st, 1912.

Kingston.		London.		Mimico.		Orillia.		Penetang.		Toronto.		Woodstock.	
This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year
206.667	206,559	393.816	393.946	219,521	217.210	297,929	292,652	132,614	133,092	327,307	318,739	70,379	67,118
534.66	565.91	1,076.	1,079.30	599.78	595.09	814.01	801 78	362.32	36 634	894.28	873.25	191.74	183.88
Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cts.
.59	.52	.30	.24	.42	.45	.34	.27	.17	.16	.32	.34	.76	.68
.59	.52	.30	.24	.42	.45	.34	.27	.17	.16	.32	.34	.76	.68
14.13	13.36	12.58	12.17	13.44	12.23	10.72	10.29	10.72	11.82	17.92	17.36	15.35	15.18
.25	.29	.40	.35	.31	.29	.14	.17	.19	.20	.24	.32	.27	.41
1.93	1.93	1.96	1.94	2.74	2.75	2.33	2.43	1.94	2.27	2.64	2.62	4.02	3.84
.50	.43	.60	.48	.39	.33	.32	.27	.44	.43	.44	.46	.45	.38
.29	.41	.18	.23	.54	.60	.07	.04	.01	.02	.66	.52	.18	.21
1.80	1.56	1.89	1.74	1.84	1.79	2.12	1.88	1.89	1.79	1.67	1.67	1.69	1.50
.52	.51	.58	.62	.75	.54	.71	.37	.23	.28	.33	.58	1.01	.94
.57	.52	.26	.30	.33	.40	.34	.33	.19	.37	.87	.62	.86	.99
1.24	1.21	1.32	1.60	1.02	.99	.83	.88	1.23	1.50	1.52	1.67	2.94	3.12
.84	.69	.29	.41	.55	.27	.32	.35	.44	.39	1.12	.68	.92	.52
.08	.08	.08	.10	.06	.11	.05	.04	.01	.03	.12	.16	.06	.05
.79	.72	1.06	.82	.90	.79	.57	.53	.34	.37	1.00	.91	1.16	.93
.95	.74	.46	.62	.82	.52	.25	.27	.12	.50	.74	.82	.24	.66
3.85	3.72	3.14	2.70	2.66	2.31	2.26	2.35	3.23	3.25	5.55	5.33	.97	1.05
.52	.55	.36	.26	.53	.54	.41	.38	.42	.42	1.02	1.00	.58	.58
7.16	7.25	4.82	5.15	7.10	5.80	3.39	3.42	4.69	5.00	5.50	5.38	6.88	5.86
7.10	7.21	3.59	3.96	6.98	5.65	3.01	3.16	4.64	4.94	4.59	4.05	5.55	4.42
.....	.....	.44	.....	.....	.....	.36	.25	.....	.....	.23	.54	1.31	1.40
.....	.....	.76	1.16	.....	.....	.....	.....	.....	.....	.64	.76	.....	.....
.06	.04	.03	.03	.12	.15	.02	.01	.05	.06	.04	.03	.02	.04
2.38	1.67	1.95	1.78	1.70	2.11	2.30	2.15	1.48	1.96	1.58	1.04	.51	.55
1.84	1.26	1.42	1.34	1.40	1.77	1.77	1.59	1.00	1.55	1.38	.80	.33	.37
.54	.41	.53	.44	.30	.34	.53	.56	.48	.41	.20	.24	.18	.18
1.09	1.11	.89	.86	.83	.85	.79	.79	.57	.52	.88	.93	1.11	1.29
.18	.28	.17	.16	.18	.18	.15	.15	.07	.10	.17	.13	.10	.13
.28	.21	.22	.19	.16	.20	.04	.06	.12	.09	.17	.12	.31	.27
.63	.62	.50	.51	.49	.47	.60	.58	.38	.33	.54	.68	.70	.89
3.33	3.14	2.45	2.34	2.42	2.46	1.92	1.58	1.02	1.48	2.37	2.50	1.25	1.02
2.63	1.94	1.82	1.91	1.85	2.05	1.42	1.12	.54	.97	1.95	1.91	.86	.67
.70	1.20	.63	.43	.57	.41	.50	.46	.48	.51	.42	.59	.39	.35
.59	.65	.35	.28	.42	.38	.18	.21	.22	.16	.33	.30	.41	.28
.35	.42	.19	.14	.22	.18	.07	.12	.10	.04	.17	.15	.23	.09
.15	.14	.07	.06	.09	.10	.05	.05	.04	.04	.05	.05	.09	.10
.09	.09	.09	.08	.11	.10	.06	.04	.08	.08	.11	.10	.09	.09
21.15	20.45	15.43	14.55	18.62	18.16	10.06	9.89	18.03	17.47	16.53	16.05	22.11	21.53
3.21	3.36	1.60	1.70	2.79	2.76	1.76	1.66	2.77	2.78	2.18	2.06	5.02	4.21
1.58	1.53	1.20	1.12	1.39	1.27	.94	.96	1.69	1.69	1.67	1.56	2.56	2.69
2.92	2.85	2.36	2.25	2.52	2.40	2.07	2.01	2.95	2.65	2.72	2.67	3.17	3.02
1.53	1.50	1.51	1.20	1.96	2.11	.90	.83	2.04	1.98	.87	1.02	1.28	1.21
1.34	1.27	.93	.97	.83	.74	.61	.63	1.29	1.27	.88	1.03	.91	.96
1.17	1.11	1.31	1.14	1.83	1.73	.44	.54	2.15	2.10	.76	.68	3.12	3.28
.....	.....	.....	.....	.....	.....	.20	.21	.....	.....	.....	.....	.....	.....
5.36	5.19	4.02	3.85	4.46	4.73	2.35	2.16	2.98	2.86	4.24	4.22	3.59	3.65
4.04	3.64	2.50	2.32	2.84	2.42	.79	.89	2.16	2.14	3.21	2.81	2.46	2.51

TABLE

Comparative Statement of Average Maintenance Cost per Capita

	Brockville.		Cobourg.		Hamilton.	
	This Year.	Last Year.	This Year.	Last Year.	This Year	Last Year.
Days' residence of patients	251,398	246,745	55,994	55,276	455,711	446,803
Average number of patients	686.88	676.01	152.99	151.39	1,247.84	1,224.11
	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.
ALLOWANCES	4.67	4.09	3.74	3.74	4.66	4.32
Employees' Meals and Uniforms	4.48	3.94	3.58	3.52	4.60	4.24
Employees' Other Allowances	.19	.15	.16	.22	.06	.08
FARM AND GARDEN	4.30	3.02	.19	.21	3.74	2.91
Feed and Fodder	2.83	2.29	.....	.....	2.55	2.19
Miscellaneous Farm Expenses	.86	.67	.09	.17	.78	.57
Seeds, etc	.61	.06	.10	.04	.41	.15
MISCELLANEOUS	1.79	1.84	1.92	1.85	1.18	1.38
Amusements, Religion, Education	.19	.18	.09	.03	.05	.07
Elopers, Cost of Recovery	.02	.01	.....	.....	.....	.....
Freight, Duties, etc	.08	.07	.16	.09	.04	.07
Ice	.19	.13	.23	.23	.13	.23
Incidental Expenses	.23	.35	.46	.38	.28	.33
Officers' Travelling Expenses	.08	.09	.09	.01	.07	.06
Power	.....	.....	.....	.....	.....	.....
Water	1.00	1.01	.89	1.11	.61	.62
Brush Industry	.....	.....	.....	.....	.....	.....
Per Capita cost per day, less Salaries	34.17	30.99	19.34	19.52	29.80	28.65
" " " " " of Salaries	21.15	18.78	26.01	26.38	18.25	17.35
Total gross per Capita cost per day	55.32	49.77	45.35	45.90	48.05	46.00
Less Farm Recoveries	5.15	4.10	.39	.36	5.34	4.14
Total Net per Capita cost per day	50.17	45.67	44.96	45.54	42.71	41.86
Less total revenue per Capita per day	6.16	6.86	1.86	1.48	8.98	9.09
Net per Capita burden payable by Province	44.01	37.81	43.10	44.06	33.73	32.77

N.B.—The accompanying is a Comparative Statement of the cost of maintenance per patient per day for the twelve months ending 31st October, 1912, in the ten Hospitals for the Insane, as compared with the twelve months ending 31st October, 1911, based on actual consumption and calculated to two places of decimals of a cent. The figures in black-faced type represent totals.

Under the headings "Provisions" and "Clothing" is shown the actual consumption by patients—the value of such supplies to officers, attendants, nurses and employees being included in the account "Employees' Meals and Uniforms."

Where no charge is shown for light or water, these are included in the cost of coal.

The produce of the Farm and Garden consumed is included in the gross per capita cost. The total crop being deducted as shown, gives the net per capita cost per day.

No. 21—*Continued.*

per Day for the Twelve Months ending October 31st, 1912.—*Continued.*

Kingston.		London.		Mimico.		Orillia.		Penetang.		Toronto.		Woodstock.	
This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.
206,667	205,559	393,816	393,946	219,521	217,210	297,929	292,652	132,614	133,092	317,307	318,739	70,379	67,118
564.66	565.91	1,076.	1,079.30	599.78	595.09	814.01	801.78	362.32	364.63	894.28	873.25	191.74	183.88
Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cts.
5.42	4.91	4.99	4.32	6.32	5.78	2.92	2.77	4.29	4.13	3.71	3.82	5.11	5.29
5.20	4.74	4.91	4.25	6.03	5.58	2.85	2.66	3.86	3.67	3.65	3.67	5.07	5.21
.22	.17	.08	.07	.29	.20	.07	.11	.43	.46	.06	.15	.04	.08
3.32	3.08	3.71	2.83	2.80	2.46	2.56	1.44	3.19	3.35	1.55	1.78	5.54	5.34
2.03	2.14	2.96	2.17	1.73	1.46	1.21	.85	2.73	2.45	1.38	1.50	3.77	4.02
.96	.74	.50	.44	.62	.67	1.17	.49	.23	.73	.15	.25	.93	.94
.33	.20	.25	.22	.45	.33	.18	.10	.23	.17	.02	.03	.84	.38
.84	.87	.62	.45	.63	.75	.74	.61	1.84	1.65	1.35	1.18	2.72	2.97
.23	.19	.09	.12	.15	.22	.10	.10	.04	.05	.13	.16	.06	.04
.01	.03	.03	.02	.01	.....	.....	.....	.01	.....	.....	.01	.....	.01
.10	.10	.06	.05	.09	.13	.21	.09	.26	.20	.07	.06	.08	.06
.15	.11	.04	.02	.15	.16	.02	.02	.07	.....	.24	.27	.02	.09
.30	.33	.38	.23	.18	.22	.12	.14	.22	.22	.45	.28	.05	.12
.05	.08	.02	.01	.05	.02	.05	.08	.10	.05	.02	.01	.03	.04
.....	.....	.....	.....	.....	.....	.12	.09	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.12	.09	1.14	1.13	.44	.39	2.48	2.61
.....	.03	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
33.43	31.65	27.67	26.10	29.76	27.49	22.94	20.76	23.91	26.10	31.80	30.81	34.53	33.17
26.57	25.36	20.42	18.87	24.94	23.94	12.98	12.66	22.32	21.60	20.24	19.87	27.22	26.82
60.00	57.01	48.09	44.97	54.70	51.43	35.92	33.42	46.23	47.70	52.04	50.68	61.75	59.99
3.20	3.85	6.32	5.14	5.25	4.17	3.94	2.24	4.50	4.11	1.34	2.11	11.11	9.09
56.80	53.16	41.77	39.83	49.45	47.26	31.98	31.18	41.73	43.59	50.70	48.57	50.64	50.90
8.48	7.33	9.63	9.77	9.56	8.60	3.50	4.41	2.35	2.60	17.81	16.96	20.95	21.92
48.32	45.83	32.14	30.06	39.89	38.66	28.48	26.77	39.38	40.99	32.89	31.61	29.69	28.98

TABLE No.

Comparisons, Appropriation, Expenditure, Consumption, Population

—		Brockville.	Cobourg.	Hamilton.
Days' residence of patients		251,398	55,994	456,711
Average number of patients		686.81	152.99	1,247.84
Medicines	Appropriation	$1,200	200	1,200
	Expenditure	1,094 38	144 20	1,027 35
	Consumption	1,124 59	144 20	1,057 55
Provisions	Appropriation	$41,000	7,800	71,600
	Expenditure	40,128 92	7,216 57	70,738
	Consumption	37,704 61	5,047 36	66,972 09
Heat and Light	Appropriation	$19,000	3,800	25,000
	Expenditure	18,320 29	3,069 71	24,859 75
	Consumption	17,874 88	2,642 98	25,822 59
Clothing, etc	Appropriation	$6,500	900	8,500
	Expenditure	6,489 16	603 32	8,010 06
	Consumption	6,055 67	596 81	6,790 22
Laundry, etc	Appropriation	$2,000	500	2,800
	Expenditure	1,995 76	462 90	2,576 76
	Consumption	1,734 45	477 45	2,705 90
Repairs, etc	Appropriation	$6,000	600	9,000
	Expenditure	5,798 17	528 65	8,999 06
	Consumption	5,050 11	499 97	9,134 75
Office	Appropriation	$1,200	300	1,400
	Expenditure	1,065 29	254 18	1,213 09
	Consumption	1,036 52	238 95	1,176 76
Salaries	Appropriation	$43,057	14,610	64,657
	Expenditure	41,425 82	12,467 86	62,107 09
	Consumption	53,187 92	14,566 13	83,367 36
Farm, etc	Appropriation	$7,500	300	9,000
	Expenditure	6,867 25	104 35	8,727 50
	Consumption	10,811 80	104 35	17,082 17
Miscellaneous Expense	Appropriation	$5,500	1,300	7,100
	Expenditure	5,241 21	961 47	6,498
	Consumption	4,494 46	1,075 83	5,371 18
Total Maintenance	Appropriation	$132,957	30,310	199,657
	Expenditure	128,426 25	25,813 21	194,756 66
	Consumption	139,075 01	25,394 03	219,480 57
Capital Accounts	Appropriation	$70,100	3,600	67,993 09
	Expenditure	33,221 55	1,899 29	49,510 50
	Consumption	.....	.....	.....
Grand Total	Appropriation	$203,057	33,910	267,650 09
	Expenditure	161,647 80	27,712 50	244,267 16
	Consumption	.....	.....	.....
REVENUE COLLECTIONS.				
From paying patients this year to date		$15,038 37	851 38	40,521 67
" " last "		15,633 63	526 89	41,978 47
From Farm and Misc. this year to date		$ 440 28	191 02	517 05
" " last "		1,293 12	288 87	546 25
Total Revenue this year to date		$15,478 65	1,042 40	41,038 72
" last "		16,926 75	815 76	42,524 72
Grand Total this year to date from the above institutions		.....	.....	.....
" last " " " "		.....	.....	.....
Total Revenue per capita per day this year to date—cents		6.16	1.86	8 98
" " " last " —cents		6.86	1.48	9.09

21.—*Concluded.*

and Revenue for the 12 Months ending 31st October, 1912.

Kingston.	London.	Mimico.	Orillia.	Penetang.	Toronto.	Woodstock.
206,667	393,816	219,521	297,929	132,614	327,307	70,379
1,564 66	1,076	599 78	814 01	362 32	894 28	191 74
1,200	1,200	1,200	1,000	750	1,200	600
1,199 24	**1,181 57**	**955 52**	**991 84**	**232 68**	**1,040 64**	**534 58**
1,211 34	1,181 57	923 42	1,008 87	232 68	1,040 64	534 58
36,000	59,600	37,000	35,000	18,000	69,000	11,000
35,074 82	**54,954 37**	**36,215 79**	**33,468 08**	**16,024 20**	**67,363 23**	**10,637 59**
29,207 24	49,544 92	29,488 63	31,923 06	14,212 78	58,648 53	10,804 77
15,000	23,000	14,000	12,000	10,000	18,300	5,000
14,973 01	**21,431 37**	**13,682 09**	**8,091 24**	**7,841 78**	**16,641 98**	**4,799 57**
14,800 97	18,971 55	15,585 81	10,085 63	6,206 82	17,972 94	4,846 75
5,800	9,800	6,000	7,500	4,800	6,000	1,000
5,209 40	**9,299 51**	**5,505 48**	**7,218 73**	**1,834 82**	**5,994 16**	**388 61**
4,918 64	7,660 02	3,726 53	6,838 70	1,957 52	5,178 68	361 45
2,160	3,600	2,000	2,500	1,200	3,500	1,200
2,158 52	**3,589 64**	**1,977 15**	**2,358 14**	**368 31**	**3,203 43**	**791 33**
2,261 88	3,538 42	1,827 28	2,373 71	761 21	2,877 99	770 02
7,000	9,800	6,000	6,000	4,000	7,000	1,500
6,400 50	**9,687 30**	**5,973 19**	**5,791 89**	**1,440 57**	**6,930 62**	**1,042 09**
6,884 52	9,658 19	5,327 77	5,740 10	1,352 48	7,779 34	882 92
1,500	1,500	1,000	900	600	1,500	500
1,221 76	**1,390 10**	**992 70**	**553 92**	**308 38**	**1,132 25**	**293 76**
1,221 76	1,371 60	937 80	539 42	294 78	1,074 65	285 43
46,323	65,420	46,255	35,082	26,585	56,932	18,066
43,699 54	**60,741 71**	**40,867 55**	**29,947 50**	**23,913 38**	**54,093 89**	**15,560 59**
54,910 31	80,422 88	54,731 83	38,658 02	29,602 83	66,253 39	19,155 71
6,500	8,000	4,000	5,500	4,500	7,200	2,500
6,330 83	**6,057 76**	**3,339 43**	**4,853 94**	**3,041 76**	**2,530**	**2,484 21**
6,864 96	14,612 25	6,163 85	7,639 89	4,239 04	5,069 72	3,900 31
2,000	2,100	2,000	2,500	2,500	6,500	3,500
1,424 22	**2,070 94**	**1,374 53**	**1,751 70**	**2,307 79**	**4,448 35**	**1,903 70**
1,737 42	2,425 94	1,370 59	2,218 85	2,437 12	4,437 16	1,916 10
123,483	184,020	119,455	107,982	72,935	177,132	44,806
117,691 84	**170,404 27**	**110,883 43**	**95,026 98**	**57,313 67**	**163,378 55**	**38,436 03**
124,019 04	189,387 34	120,083 51	107,026 25	61,297 26	170,333 04	43,458 04
29,200	68,600	33,300	50,700	18,800	207,800	11,200
21,473 21	**50,939 63**	**23,845 38**	**19,474 45**	**8,134 34**	**20,765 48**	**9,047 58**
.....	.....	.....	.....	.....	.....	.....
152,683	252,620	152,755	158,682	91,735	384,932	56,066
169,165 05	**221,343 90**	**134,728 81**	**114,501 43**	**65,448 01**	**184,144 03**	**57,483 61**
.....	.....	.....	.....	.....	.....	.....
16,809 16	36,877 40	19,190 34	9,684 43	2,532 85	57,275 76	13,087 67
14,839 55	37,942 05	17,169 80	10,956 49	2,420 13	52,566 66	13,559 57
733 78	1,049 24	1,804 58	753 80	587 74	1,007 85	1,655 86
300 87	543 20	1,503 65	1,955 34	1,041 40	1,490 63	1,152 46
17,542 94	37,926 64	20,994 92	10,438 23	3,120 59	58,283 61	14,743 53
15,140 42	38,485 25	18,673 45	12,911 83	3,461 53	54,057 29	14,712 03
.....	220,610 23	.....	.....	.....	.....	.....
.....	217,709 03	.....	.....	.....	.....	.....
8.48	9.63	9.56	3.50	2.35	17.81	20.95
7.33	9.77	8.60	4.41	2.60	16.96	21.92

Notes on Per Capita Statement.

Attached hereto is a statement of the cost of maintenance per patient per day for the year ending October 31st, 1912, in the ten hospitals mentioned, as compared with the year 1911, being based on actual consumption.

It follows out the order of the sub-divisions of appropriations voted by the Legislature, and is calculated to two places of decimals of a cent. The figures in black-faced type represent totals.

Invoices for all purchases, properly certified by the Bursar and the Storekeeper, as to accuracy and receipt of goods, are checked in the Department before being submitted to the Treasury for payment.

A system of Daily Requisitions for all supplies, such as provisions, is carried out and these requisitions are forwarded to the Department semi-weekly. In case of coal, the amount consumed on each shift is weighed and weekly report of consumption made by the engineer.

Under headings "Provisions" and "Clothing" is shown only consumption by patients—the value of such supplies to officers, attendants, nurses and employees being included in the account "Employees' Meals and Uniforms" under the heading "Salaries."

Quarterly inventories of stock are taken at each institution, and are checked with the ledger accounts of the Department.

Returns are made of all products of the Farm and Garden, as received, charges being made against the cost of maintenance, and the Farm and Garden given credit for the same; for this purpose a uniform price list is in use for all institutions, regardless of soil or fertility of farm. At the end of the year the value per patient per day of such products—fruits, vegetables, feed and fooder, meat and eggs—is deducted from the gross per capita cost and appears in the statement as "Farm Recoveries."

APPENDIX

TO FORTY-FIFTH ANNUAL REPORT UPON THE HOSPITALS FOR THE INSANE AND CONTAINING THE ANNUAL REPORTS OF THE MEDICAL SUPERINTENDENTS OF THE HOSPITALS IN BROCKVILLE, COBOURG, HAMILTON, KINGSTON, LONDON, MIMICO, PENETANGUISHENE, TORONTO, AND HOMEWOOD SANITARIUM, GUELPH.

Main Building, Brockville.

HOSPITAL FOR INSANE, BROCKVILLE.

ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT, FOR THE YEAR ENDING OCTOBER 31ST, 1912.

BROCKVILLE, November 1st, 1912.

TO EDWIN R. ROGERS, ESQ.,

Inspector of Public Charities.

SIR,—I have the honour to submit the report of this hospital for the year ending October 31st, 1912.

This past year has been a record one in our institution for admissions, discharges and deaths. All have been larger than any previous year.

——	Male.	Female.	Total.	Male.	Female.	Total.
There were in residence on October 31st 1910...	.....	.....	.....	350	343	693
Admitted during the year by Warrant.....	7	6	13			
Admitted during the year by Certificate.....	70	75	155			
Total admitted during the year.....	.....	.....	.....	87	81	168
Total number under treatment during year.	.....	.....	.....	437	424	861
Discharged during the year recovered	23	29	52			
Discharged during the year improved	17	10	27			
Total discharged during the year.....	42	40	82			
Number died during the year.....	37	33	70			
Number eloped during the year.....	8	.....	8			
Number transferred during the year.....	.....	.....	.....			
Total number leaving the institution during the year.....	.....	.....	.....	88	74	162
Total number remaining in Hospital on October 31st, 1912.....	.....	.....	.....	349	350	699

ADMISSIONS.

During the past year there were admitted to the hospital one hundred and sixty-eight patients, eighty-seven being men and eighty-one women. Of this number seventy-six were single, seventy married and twenty-two widowed. Of the seventy-six single persons admitted, forty-four were males and thirty-two females. Of the married thirty-seven males and thirty-three females, widowed six males and sixteen females. From histories obtained over fifty per cent. had an hereditary tendency. Quite a number of others of whom we could obtain no history, should, no doubt, be placed in this class.

Thirty-two of those admitted were reported to be ill for a period less than one month; twenty-three less than two months, fourteen less than three months, seventeen for less than six months, twenty-two were under one year, ten under two years, fourteen under three years, twenty-three under ten years, five under twenty years, eight over twenty years. So it will be seen that nearly fifty per cent. of all admissions were in the chronic class before this admission.

The youngest person admitted during the year was seventeen and the eldest ninety. There were sixteen admissions under twenty-one, twenty-nine between twenty-one and thirty, thirty-nine between thirty and forty, twenty-one between forty and fifty, twenty-two between fifty and sixty, seventeen between sixty and seventy, fourteen between seventy and eighty and nine between eighty and ninety.

The number of senile cases admitted is constantly on the increase. A great many of these are very troublesome at home, and as the dread of hospital treatment is disappearing from the public mind, the friends of these people are more anxious to have them receive institutional care.

Sixty-one of our admissions were diagnosed as dementia praecox, thirty-nine as manic depressive, thirty-four as senile psychosis, six epileptics, seven alcoholics, three paretics, five infective psychosis, four melancholics, four imbeciles, one tabetic psychosis, one Huntington's chorea, one paranoiac, and one hysteria.

Discharges.

Eighty-two patients were discharged during the year. Fifty-two were considered recoveries, twenty-seven improved, and three unimproved. Of those discharged as improved, some might have been placed in the former class, as from accounts we have heard from them they have made a good recovery since returning home. We have been very well satisfied with the percentage of recoveries considering the class of cases admitted. Some of those discharged had been in residence for a great many years—one six years, one seven years and another nine years, and have all done well since returning to their friends.

Deaths.

Our death rate was unusually high. Thirty-seven men and thirty-three women died. A large number of these were among transfers from other institutions when this place was opened, and a number were among the old people admitted during the year. Twenty-seven were over sixty years of age and a large number from seventy to ninety.

The death rate from tuberculosis was much larger this year than usual—eight men and seven women having died from this disease during the year. These were nearly all chronic and many had been ill for a long time.

Treatment.

Our medical staff have been very energetic in their treatment of all cases this year. We still continue to see good results from our hydrotherapeutic measures, which are carried out very thoroughly. All forms of this treatment are in use.

The special diet for the sick patients has been carefully prepared.

Quite an amount of surgery has been done with much benefit to those operated on.

Steady employment, which is one of the best forms of treatment that can be adopted, has been utilized in all cases where at all practicable.

The different forms of recreation have not been neglected and good results have been obtained by having our patients taking part in all the sports and games that can be arranged.

Training School.

During the past year the nurses have taken a great interest in their training school work, and did well in the examinations conducted by the Provincial Board of Examiners. This department has been in charge of Miss Whalen who was appointed head nurse in November last. She was one of our own graduates, and took a post-graduate course in general hospital work before receiving the appointment. She is giving excellent satisfaction and the work of the nurses is reflecting credit upon her efforts, not only in the examinations but particularly in their ward work. The lectures to the nurses are given entirely by our own staff. The matron, Miss Gibson, has taken up the important branch of dietetics, the effect of which is seen in the improved trays for the sick.

Epidemic.

In January of this year we had an outbreak of smallpox, and it was discovered that we had three nurses ill with that disease. Dr. McCullough, the Provincial Medical Health Officer, our Medical Health Officer, Dr. Judson, of Lyn, and Dr. MacAulay, the Medical Officer of Brockville, were notified. We are very much indebted to the health officers above mentioned for the kindly advice given to properly control the disease. Doctors Judson and MacAulay spent a couple of hours with us giving us very profitable hints and advice.

Prompt measures were adopted, in which we had your very earnest co-operation and the affected persons were all isolated in a tent and special nurses placed in charge. Our medical staff proceeded at once to vaccinate every person in the Institution—not only the officers, nurses, attendants and employees, but all the patients. The whole of this work was accomplished in one week. The Assistant Superintendent took charge of the tent, and also the quarantine, and carried it out most effectively, and no new cases developed.

The great benefit of vaccination was very much in evidence. Two of the nurses had been vaccinated and had the disease in a very mild form, and the unvaccinated one was so ill that at one time we feared she might die. We were very thankful to not have any further extension of the disease or any serious results.

Engineer's Department.

As usual in this department the repair work has been a large item.

For the new hospital building 450 feet of 6-inch iron water pipe was installed, also 500 feet 3-inch gas main together with a tile drain running from the building to the main sewer.

In the Executive Building a number of new closets, tanks, sinks and basins were placed.

The cottages have all been installed with new closets, tanks and sinks. They are now also being supplied with hot water from the Toby heater in the Main Building; 1,350 feet of pipe were put in for this purpose.

In the kitchen a new copper kettle was placed.

In the laundry a new washing machine, a new extractor, a large soap tank and a collar and cuff ironer have been installed.

Furnaces have been placed in both the engineer's and farmer's residences.

At the piggery iron fencing with wire netting was placed on all the outside yards. There was also a good deal of fitting up of the interior pens, and a new hot water kettle was installed.

In both the cow barn and slaughter house, heaters with hot water appliances were placed.

In the main sewer about 220 feet of 9-inch sewer pipe had to be taken up and relaid and cemented.

In September the electric wiring in conduit was begun and is still going on.

Fire Appliances.

The fire appliances have been improved during the year. A new fire pump was placed in the engine room, capable of throwing 1,000 gallons per minute. This entailed the work of laying 204 feet of 12-inch suction pipe to the water tower.

The new standpipes with proper hose were placed in halls in Executive Building, standpipes and hose in the basements of the cottages.

Both cow barn and piggery were also supplied additional fire protection by laying fresh water main from hydrant and supplying each with hose.

Carpenter's Department.

The daily repair work is very extensive.

A large number of wardrobes have been built for nurses and attendants.

A cabinet for heating plates was placed over a radiator in each one of the cottages.

Moulding was put up in all places that have been repainted.

New hose brackets were placed all through the buildings so as to keep the hose in better shape.

Several new tables for the various dining-rooms were constructed, a china cabinet, billiard cue rack, bread troughs for the bakeshop, and a number of other articles were made for the wards and Executive Building.

Before doing outside painting, the verandahs on all the cottages had practically to be rebuilt.

The piggery and slaughter house were all re-sheeted and interior fittings made complete. Extra plank pens were put in for the hogs. There was a large amount of repair work to be done on the outside of piggery.

A new implement shed and permanent cement house was placed at the south side of the barnyard.

A temporary shed and cement house was also built at the new building.

Window screens, hayracks, horse troughs, ice box had to be built for the farm.

A new poultry house was constructed.

Thirty-two feet were added to our skating and curling rink. As this building is sixty-six feet wide it can easily be seen that this addition meant a large amount of work. A great many changes also had to be made in the interior of the rink. It will now be one of the best in the service, and the additional ice for skating will be found to be of great benefit this winter.

Mason's Department.

The mason is always in demand in some part of the building.

His repair work has been kept well in hand notwithstanding the large amount of work that has been done outside.

View from Main Building overlooking St. Lawrence River.

A hot water tank and furnace was placed in barn and piggery, and had to be encased.

Practically new cement floors were placed in the lavatories in all the cottages.

Cement work had to be placed in connecting the large tile sewer and a number of drains that have been placed in.

Cement flooring in outside pens and walls between pens were constructed in completing the work begun on the piggery last year.

Cement foundation and floor was placed for the new poultry house, also cement floor had to be made in part of the slaughter house.

A chimney was built on stable and a foundation built for the new cold storage building.

New sidewalks were built in front of cottages on both male and female sides, extending the full length of the buildings.

Painter's Department.

The interior of one hall and one cottage have been repainted and renovated. The exterior of these buildings has required painting for a long time. This year the exterior of the residence and the female cottages have been repainted.

With all this new work the repair work has not been neglected.

Garden.

The Gardener, as usual, has kept up a large supply of vegetables and flowers, and has kept his grounds in excellent order during the year In addition to his other work this year, he looked after the pruning and spraying of the orchard on the farm lately purchased, and also gathered the crop of apples. We had nearly one thousand bushels of apples, and as they were chiefly of the Fall variety they had to be used rapidly. Nevertheless our patients have been enjoying them for two months now, and we anticipate they will last through the greater part of January. During all this time they have been served freely through the wards and have proved as much of a benefit as a luxury.

Farm.

In the spring another hundred acres of land was purchased and added to the lands purchased last year, so that at the new hospital farm we now have about 320 acres.

All the farm lands this year have been placed under the competent management of Mr. S. E. Todd, who has been appointed Farm Director for the Province. This year he has been engaged in laying the foundation for the future years.

The lands have been carefully surveyed and a map drawn, showing all the drains required. The work has been very carefully done by Mr. C. F. Neelands, an O. A. C Senior Student from Guelph, who has had considerable experience in survey work. A plan has also been made to change the course of the creek running through the Stagg Farm.

So much work is required now on our farm lands that it makes an excellent opportunity for our patients who have had experience in this line to secure outdoor occupation. From sixteen to twenty patients have been housed in the farm houses this summer and many of them enjoy their life there very much.

Other Departments.

The work in these departments has been very well managed, and we do not feel that any department has gone behind.

On the first of June this year, Mr. Charles Cato received the appointment as Tailor and his services have been very satisfactory.

On October 31st, our Storekeeper, Mr. Hugo H. Ross, resigned to accept a more remunerative position. He was much respected while here, and was always very gentlemanly to everyone. His fellow-workers were sorry to have this connection severed. Mr. George McGookin has been appointed his successor and has taken charge of the store.

The addition of another medical man to the staff is very much needed, as it is impossible for two medical men to keep up the laboratory and pathological work as it should be done without more help.

New Hospital Building.

Work was not begun very early in the season. Mr. Evans, an experienced cement man, was sent down from Toronto, and has put in an excellent foundation. It is all ready for the superstructure to be placed on next year. Two of our attendants, with a number of patients, were engaged in this work with two or three hired helpers. One of our carpenters was engaged on the work a good portion of the summer, building the forms, etc.

Amusements.

During last winter the curling rink was kept constantly open, and the skating ice was nearly always occupied.

Through the summer the Bowling Green was in use every dry day. The attendants generally and a very large number of patients engaged in this exercise. Special rink matches were held on both the curling rinks and bowling greens and caused a great deal of friendly rivalry. Many patients have been greatly benefitted, both mentally and physically, by engaging in these games. Dr. Crawford deserves great credit for having occupied his spare moments in looking after these matches and sustaining the interest.

Football, both spring and fall, caused a great deal of enthusiasm.

The women patients took a great deal of interest in croquet and played many matches.

Two tennis courts were nearly always in demand in fair weather, and some very excellent exhibitions of tennis were to be seen.

I have the honour to be,

Sir,

Your obedient servant,

J. C. Mitchell,

Medical Superintendent.

ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR INSANE, BROCKVILLE, FOR THE YEAR ENDING OCTOBER 31st, 1912.

TABLE No. 1—BROCKVILLE.

Showing movements of patients in the Hospital for the official year ending October 31st, 1912.

	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	356	348	704			
In Residence October 31st, 1911				350	343	693
Admitted during year 1912:						
By Warrant	7	6	13			
By Medical Certificate	80	75	155	87	81	168
Total number under treatment during year				437	424	861
Discharges during year:—						
As recovered	23	29	52			
" improved	17	10	27			
" unimproved	2	1	3			
" not insane						
	42	40	82			
Total number discharged during year						
Died	37	33	70			
Deported	1	1	2			
Eloped	8		8			
Transferred				88	74	162
Remaining in Hospital October 31st, 1912				349	350	690
Total number admitted since opening of Hospital				1,278	1,253	2,531
Total number discharged since opening of Hospital	429	495	924			
Total number died since opening of Hospital	436	327	763			
Total number deported since opening of Hospital	4	5	9			
Total number eloped since opening of Hospital	37	2	39			
Total number transferred since opening of Hospital	23	74	97	929	903	1,832
Total remaining in Hospital October 31st, 1912				349	350	699
Daily average population	358.20	353.36	711.56			
Collective days' stay of all patients in residence during year	131,029	129,404	260,433			
Number of applications on fyle	6	8	14			

TABLE No. 2—BROCKVILLE.

Showing social state and religion of patients admitted during the year and aince opening of Hospital.

	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Social State.						
Single	44	32	76	771	591	1,362
Married	37	33	70	475	600	1,075
Widowed	6	16	22	32	61	93
Divorced						
Separated					1	1
Unascertained						
Totals	87	81	168	1,278	1,253	2,531
Religion.						
Baptists	6	3	9	39	33	72
Congregationalists				6	3	9
Church of England	16	12	28	224	230	454
Methodists	12	15	27	196	240	436
Presbyterians	20	15	35	243	222	465
Roman Catholics	31	26	57	480	470	950
Other Denominations	1	6	7	54	43	97
Unascertained	1	4	5	36	12	48
Totals	87	81	168	1,278	1,253	2,531

TABLE No. 3—BROCKVILLE.

Showing nativity of patients admitted during the year and since opening of Hospital.

Nativity.	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Total admissions	87	81	168	1,278	1,253	2,531
Total born in Canada	73	66	139	1,031	1,020	2,051
Armenia						
Assyria				2	2	4
Austria	1	1	2	1	2	3
Australia						
Belgium						
Bulgaria						
Central America						
China				1		1
Denmark				2		2
England	4	6	10	70	52	122
France				6		6
Finland						
Galicia						
Germany				5	6	11
Greece						
Holland						
Hungary						
Ireland	4	1	5	69	100	169
Italy				2		2
Japan						
Macedonia						
Other British Possessions						
Norway				1		1
Roumania						
Russia	1	4	5	4	9	13
Scotland	2	2	4	31	35	66
South America						
Spain						
Swedon				2	1	3
Turkey						
United States	2	1	3	32	19	51
West Indies						
Unascertained				19	7	26
Totals	87	81	168	1,278	1,253	2,531

TABLE No. 4—BROCKVILLE.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

Occupation.	Admitted this Year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Professional :— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc	1	.....	1	16	2	18
Commercial :— Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc	8	2	10	98	19	117
Agricultural and Pastoral :— Farmers, Gardeners, Stock Men, etc.	31	.....	31	398	.....	398
Mechanics at Outdoor Vocations :— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc	11	.....	11	133	.....	133
Mechanics, etc., at Sedentary Vocations : Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc	6	3	9	74	34	108
Domestic Service :— Waiters, Cooks, Servants, etc	2	10	12	3	202	205
Education and Higher Domestic Duties :— Governesses, Teachers, Students, Housekeepers, Nurses, etc	1	66	67	11	867	878
Miners, Marine Engineers, Railway Employees, Seamen, etc	3	.....	3	23	.....	23
Laborers	24	.....	24	417	.....	417
No Occupation	.....	.....	.....	60	106	166
Unascertained	.....	.....	.....	45	23	68
Totals	87	81	168	1,278	1,253	2,531

TABLE No. 5—BROCKVILLE.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospital.

Counties and Districts.	Admitted during year.			Admitted since opening.			Warrant cases.						Remaining in residence.		
							Admitted during year.			Admitted since opening.					
	Male.	Female.	Total	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District	....	....	....	1	.....	1	....	....	....	1	....	1	...	...	....
Brant	....	1	1	.....	1	1	....	....	....	....	....	....	....	....	....
Bruce	....	....	....	4	2	6	....	....	....	2	....	2	1	...	1
Carleton	19	35	54	325	342	667	5	5	10	148	114	262	86	118	204
Dufferin	....	....	....	.....	.....	.....	....	....	....	....	....	....	....	....	....
Dundas	6	4	10	66	58	124	1	....	1	1	....	1	16	11	27
Durham	....	....	....	6	5	11	....	....	....	....	....	....	...	2	2
Elgin	....	....	....	4	4	8	....	....	....	3	1	4	...	...	....
Essex	....	....	....	7	4	11	....	....	....	4	4	8	2	1	3
Frontenac	....	....	....	16	16	32	....	....	....	7	7	14	2	6	8
Glengarry	4	6	10	77	73	150	....	....	....	1	....	1	11	19	30
Grenville	6	5	11	102	121	223	....	....	....	1	1	2	15	27	42
Grey	....	....	....	3	1	4	....	....	....	1	1	2	...	...	....
Haldimand	....	....	....	3	.....	3	....	....	....	3	....	3	1	...	1
Halton	....	....	....	2	.....	2	....	....	....	1	....	1	1	...	1
Hastings	....	....	....	13	26	39	....	....	....	7	17	24	5	6	11
Huron	....	....	....	5	3	8	....	....	....	3	....	3	...	2	2
Kent	....	....	....	7	1	8	....	....	....	4	....	4	3	...	3
Lambton	....	....	....	8	1	9	....	....	....	5	1	6	4	...	4
Lanark	11	8	19	131	131	262	....	....	....	32	22	54	40	35	75
Leeds	16	10	26	141	150	291	....	....	....	31	18	49	44	44	88
Lennox and Addington	....	....	....	4	5	9	....	....	....	4	5	9	2	1	3
Lincoln	....	....	....	3	2	5	....	....	....	2	2	4	...	1	1
Middlesex	....	....	....	16	16	32	....	....	....	10	6	16	2	3	5
Muskoka District	....	....	....	1	.....	1	....	....	....	....	....	....	....	....	....
Nipissing District	....	....	....	3	1	4	....	....	....	....	....	....	1	...	1
Norfolk	....	....	....	2	.....	2	....	....	....	1	....	1	...	...	....
Northumberland	....	....	....	6	4	10	....	....	....	6	3	9	2	1	3
Ontario	....	....	....	4	7	11	....	....	....	4	7	11	2	...	2
Oxford	....	....	....	5	3	8	....	....	....	5	1	6	1	...	1
Parry Sound District	....	....	....	.....	.....	.....	....	....	....	....	....	....	....	....	....
Peel	....	....	....	4	2	6	....	....	....	2	....	2	1	...	1
Perth	....	....	....	6	1	7	....	....	....	6	....	6	2	1	3
Peterborough	....	....	....	4	2	6	....	....	....	4	2	6	1	...	1
Prescott	3	4	7	67	73	140	....	1	1	35	35	70	22	24	46
Prince Edward	....	....	....	2	3	5	....	....	....	1	1	2	...	...	....
Rainy River District	....	....	....	.....	.....	.....	....	....	....	2	2	4	...	...	....
Renfrew	2	1	3	15	15	30	....	....	....	8	5	13	7	3	10
Russell	5	1	6	36	40	76	....	....	....	.....	.....	.....	13	13	26
Simcoe	....	....	....	7	3	10	....	....	....	5	2	7	2	...	2
Stormont	15	6	21	106	78	184	1	....	1	39	11	50	38	22	60
Thunder Bay District	....	....	....	1	.....	1	....	....	....	....	....	....	....	....	....
Victoria	....	....	....	2	8	10	....	....	....	2	7	9	...	...	....
Waterloo	....	....	....	2	.....	2	....	....	....	1	....	1	1	...	1
Welland	....	....	....	3	.....	3	....	....	....	3	....	3	2	...	2
Wellington	....	....	....	1	3	4	....	....	....	1	....	1	...	...	....
Wentworth	....	....	....	3	5	8	....	....	....	3	2	5	1	2	3
York	....	....	....	48	41	89	....	....	....	43	35	78	16	7	23
Unascertained	....	....	....	6	2	8	....	....	....	1	1	2	2	1	3
Totals	87	81	168	1,278	1,253	2,531	7	6	13	443	313	756	349	350	699

TABLE No. 6—BROCKVILLE.

Showing the assigned causes of insanity in the cases admitted during year.

Causes.	Men.	Women.	Total.	Inherited Predisposition.			Unascertained.
				Men.	Women	Total.	
Moral.							
Adverse Conditions (such as loss of friends, business troubles, etc.)	5	7	12	2	.....	2	10
Mental Strain, Worry and Overwork (not included in above)	11	4	15	7	.....	7	8
Religious Excitement	.....	1	1	.....	.....	.....	1
Love Affairs, including seduction	.....	1	1	.....	1	1	.....
Fright and Nervous Shock	3	1	4	1	1	2	2
Physical.							
Alcoholism	17	3	20	9	.....	9	11
Sexual Excess	.....	.....	.....	.....	.....	.....	.....
Venereal Diseases	.....	.....	.....	.....	.....	.....	.....
Masturbation	2	.....	2	1	.....	1	1
Insolation	.....	.....	.....	.....	.....	.....	.....
Accident or Injury	.....	2	2	.....	.....	.....	2
Pregnancy	.....	5	5	.....	1	1	4
Parturition and Puerperium	.....	1	1	.....	.....	.....	1
Lactation	.....	.....	.....	.....	.....	.....	.....
Climacteric Period	.....	.....	.....	.....	.....	.....	.....
Fevers	.....	1	1	.....	.....	.....	1
Privation and Overwork	10	5	15	5	3	8	7
Epilepsy	1	3	4	.....	.....	.....	4
Other Convulsive Diseases	.....	1	1	.....	1	1	.....
Diseases of Brain and Skull	4	1	5	.....	.....	.....	5
Senility	17	18	35	3	3	6	29
Exophthalmic Goitre	.....	.....	.....	.....	.....	.....	.....
Epidemic Influenza	.....	.....	.....	.....	.....	.....	.....
Abuse of Drugs	.....	.....	.....	.....	.....	.....	.....
Loss of Special Sense	.....	.....	.....	.....	.....	.....	.....
Uræmia	.....	.....	.....	.....	.....	.....	.....
Other Auto-infection	.....	.....	.....	.....	.....	.....	.....
Other Bodily Diseases	4	10	14	.....	2	2	12
Hereditary.							
Congenital Defect	12	16	28	5	11	16	12
Unascertained	1	1	2	.....	1	1	1
Not Insane	.....	.....	.....	.....	.....	.....	.....
Totals	87	81	168	33	24	57	111

TABLE No. 7—BROCKVILLE.

Showing hereditary tendency to insanity in patients admitted during the year and since the opening of the Hospital.

	Admitted During Year.			Since Opening.		
	Male.	Female.	Total.	Male	Female.	Total.
Paternal Branch	15	7	22	150	149	299
Maternal Branch	12	11	23	133	140	273
Paternal and Maternal Branches	5	5	10	53	42	95
Collateral Branches	.....	4	4	185	204	389
No Hereditary Tendency	43	38	81	478	421	899
Unascertained	12	16	28	279	297	576
Totals	87	81	168	1,278	1,253	2,531

TABLE No. 8—BROCKVILLE.

Showing summary of Probational discharges during the year.

	Male.	Female.	Total.
Number Granted Discharge	40	42	82
Discharged, Recovered	19	28	47
" Improved	12	7	19
" Unimproved	.....	1	1
Died	.....	.....	.....
Returned to Hospital	7	4	11
Absent on Probation on October 31st, 1912	2	2	4
	40	42	82

TABLE No. 9—BROCKVILLE.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Specific Infectious Diseases:—						
Typhoid Fever						
Influenza				2	1	3
Cerebro-spinal Meningitis		1	1	1	1	2
Diphtheria						
Erysipelas				3	1	4
Septicæmia		1	1	4	5	9
Dysentery		2	2	6	10	16
Syphilis				1		1
Tuberculosis	8	7	15	67	62	129
Constitutional Diseases:—						
Rheumatism					1	1
Arthritis Deformans						
Diabetes Mellitus						
Diseases of the Digestive System:—						
Mouth, salivary glands					1	1
Pharynx						
Tonsils						
Œsophagus				1		1
Diseases of the Intestines:—						
Diseases of the Liver				4	4	8
" " Pancreas						
" " Peritoneum				5	3	8
Diseases of the Respiratory System:—						
Diseases of the Nose and Larynx				2		2
" " Bronchi				2		2
" " Lungs	3	3	6	19	18	37
" " Pleura				1	1	2
Diseases of the Circulatory System:—						
Diseases of the Pericardium						
" " Heart	2	2	4	34	27	61
Arterio-sclerosis	2	5	7	26	25	51
Aneurism				1		1
Diseases of the Blood and Ductless Glands:—						
Anæmia				3	1	4
Pernicious Anæmia						
Leukæmia						
Exophthalmic Goitre						
Diseases of the Genito-Urinary System	1		1	16	9	25
Carried Forward	16	21	37	198	171	368

TABLE No. 9—BROCKVILLE—*Continued.*

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	16	21	37	198	171	368
Diseases of the Nervous System:—						
Diseases of the Nerves				1		1
" " Spinal Cord				1		1
" " Meninges					4	4
Organic Diseases of the Brain, (Tumor, Abscess, Embolism, Thrombosis, Hæmorrhage, and other gross lesions)	2		2	26	16	42
Functional Nervous Diseases, (Paralysis Agitans, Chorea, Eclampsia, Hysteria)		1	1		1	1
Epilepsy	5	1	6	45	20	65
Mental Diseases:—						
Exhaustion of Acute Mental Disease				8	16	24
Exhaustion of Chronic Mental Disease	5	5	10	64	43	107
General Paresis	2		2	44	7	51
Intoxications:—						
Alcoholism						
Morphinism						
Metallic Poisoning						
Heat Stroke						
Debility of Old Age	5	4	9	32	35	67
Accident	1		1	1		1
Suicide				5	3	8
Surgical Diseases				1	1	2
Gynæcological Diseases						
Malignant New Growths, or Cancer	1	1	2	10	11	21
Totals	37	33	70	436	327	763

TABLE No. 10—BROCKVILLE.

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses:—									
(a) Fever Delirium									
(b) Infection Delirium		1	1					1	1
(c) Post Infection Psychoses									
Exhaustion Psychoses:—									
(a) Collapsed Delirium									
(b) Acute Confusional Psychoses		2	2		3	3			
(c) Neurasthenia	2		2	2		2			
Intoxication Psychoses:—									
(a) Acute Intoxications									
(b) Chronic "									
(a) Alcoholism (acute and chronic)	4	1	5	4	1	5			
(b) Delirium Tremens	1		1						
(c) Korsakow's Psychoses		1	1						
(d) Acute Alcoholic Hallucinosis									
(e) Alcoholic Hallucinatory Dementia									
(f) " Paranoia									
(g) " Paresis									
(h) Morphinism									
(i) Cocainism									
Thyroigenous Psychoses:—									
(a) Mixœdematous Psychoses									
(b) Cretinism								1	1
Dementia Præcox:—									
(a) Hebaphrenic	20	13	33	11	4	15	8	10	18
(b) Catatonic	6	18	24	6	8	14	2	1	3
(c) Paranoid	3	1	4	1	2	3			
General Paresis	2	1	3	1		1	2		2
Organic Dementias:—									
(a) Cerebral Sclerosis									
(b) Huntingdon's Chorea		1	1					1	1
(c) Multiple Sclerosis									
(d) Cerebral Syphilis	1		1						
(e) Tabetic Psychoses	1		1						
(f) Arterio-sclerotic Psychoses									
(g) Cerebral Tumor, Abscess, Hæmorrhage									
Involution Psychoses:—									
(a) Melancholia	1	3	4				1		1
(b) Pre-senile Delusional Psychoses									
(c) Senile Dementia	16	18	34	5	5	10	12	15	27
Manic Depressive Psychoses:—									
(a) Manic States	6	4	10	4	3	7	1		1
(b) Depressed States	16	11	27	6	12	18	4	2	6
(c) Mixed States		2	2						
Carried Forward	79	77	156	40	38	78	30	31	61

TABLE No. 10—BROCKVILLE—*Continued.*

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	79	77	156	40	38	78	30	31	61
Paranoia	1	....	1	....	....	....	1	....	1
Psychoses from Constitutional Neuroses:—									
(a) Epileptic Psychoses	3	3	6	2	1	3	6	2	8
(b) Hysterical Psychoses	....	1	1	....	1	1	....	....	....
(c) Sexualis Psychopathia	....	....	....	....	....	....	....	....	....
States of Deficient Mental Development:—									
(a) Imbecility	4	....	4	1	1	2	....	....	....
(b) Idiocy	....	....	....	....	....	....	....	....	....
Not Diagnosed	....	....	....	....	....	....	....	....	....
Not Insane	....	....	....	....	....	....	....	....	....
Totals	87	81	168	43	41	84	37	33	70

TABLE No. 11—BROCKVILLE.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1912.	Periods of treatment of those who were discharged recovered during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treatment of those who died during the year.
Under 1 month	32	18	2	....	2	7
From 1 to 2 months	23	10	....	1	....	3
" 2 " 3 "	14	13	....	2	....	2
" 3 " 4 "	10	8	4	....	1	....
" 4 " 5 "	5	7	4	1	....	3
" 5 " 6 "	2	12	8	3	....	3
" 6 " 9 "	18	18	16	2	....	4
" 9 " 12 "	4	17	7	5	....	2
" 12 " 18 "	6	46	2	8	....	3
" 18 months to 2 years	4	20	2	....	....	2
" 2 to 3 years	14	47	4	2	....	6
" 3 " 4 "	9	45	2	....	....	2
" 4 " 5 "	2	49	1	1	....	1
" 5 " 10 "	12	151	....	2	....	9
" 10 " 15 "	2	147	....	....	....	11
" 15 " 20 "	3	91	....	1	....	6
" 20 years and upwards	8	....	....	....	....	....
Totals	168	699	52	28	3	70

HOSPITAL FOR THE INSANE, COBOURG.

ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT FOR THE YEAR ENDING OCTOBER 31ST, 1912.

NOVEMBER 1ST, 1912.

TO EDWIN R. ROGERS, ESQ.,

Inspector of Hospitals for Insane, Toronto, Ontario.

SIR,—I have the honour to submit for your consideration the report of the Hospital for Insane, Cobourg, for the twelve months ending October 31st, 1912.

During the year sixteen patients were admitted to this institution. Of this number twelve were transferred from other hospitals. It seems to me that we should have sufficient equipment to admit a limited number of patients suffering from acute forms of insanity. If this were done it would not only make the work more interesting but would also be a very great convenience to residents of this district. It is a well known fact that many patients suffering from mental disease die from exhaustion before or soon after they arrive at a hospital for the insane, owing to the fact that under present conditions many are obliged to travel long distances in order to obtain efficient treatment. In the same way other patients either commit suicide or die as the result of accident while travelling to a hospital for the insane. It is, indeed, regrettable that disturbed patients should be obliged to travel many miles in ordinary railway coaches in the presence of ordinary passengers. Many of these patients are excited during the whole course of their trip, and frequently are restrained and tied in a most disagreeable manner. The impression left on the mind of the general public is such matters makes it more difficult to carry on successfully the educational campaign regarding the nature of insanity which has received so much attention during the past few years. In my opinion every general hospital receiving government aid should be obliged to furnish some accommodation for patients of this class, where they could be treated successfully and many cases, no doubt, would be cured without being transferred to a hospital for the insane. I have no doubt that the time will come when this suggestion will be adopted and it may be much sooner than most people believe. A patient suffering from the delirium of typhoid fever is often more troublesome and more difficult to manage than the class of patients to which I refer, and it must also be remembered that prompt treatment is of the utmost importance in many cases of mental disease.

The number of deaths has been somewhat larger than usual owing to the fact that our patients suffered from an epidemic of intestinal indigestion during the last three months of the year.

Fire practices have been held regularly and we are now able to remove all our patients from the building in a very short time. All helpless patients are now on the ground floor and may be easily removed in case of fire. We have made a number of improvements during the year especially in the engineer's department. Arrangements have been made by which the exhaust steam is now used for heating purposes, thus eliminating loss of heat which has been going on for some time. Two spray baths have been installed, one on Hall 2, the other on Hall 3. In the past all the patients from Hall 3 and 2 were obliged to go to Hall 1 for their baths, bringing with them change of clothing, etc. The new baths will render this unnecessary and they may be used more frequently if required.

Main Building, Cobourg.

TABLE No. 3—COBOURG.

Showing nativity of patients admitted during the year and since opening of Hospital.

Nativity.	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Total Admissions		16	66		282	282
Total born in Canada		10	10		174	174
Armenia						
Assyria						
Austria						
Australia						
Belgium						
Bulgaria						
Central America						
China						
Denmark						
England		2	2		38	38
France					1	1
Finland						
Galicia						
Germany					2	2
Greece						
Holland						
Hungary						
Ireland		2	2		42	42
Italy						
Japan						
Macedonia						
Other British Possessions						
Norway					1	1
Roumania						
Russia						
Scotland		1	1		17	17
South America						
Spain						
Sweden						
Turkey						
United States		1	1		4	4
West Indies						
Unascertained					3	3
Totals		16	16		282	282

TABLE No. 4—COBOURG.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

Occupation.	Admitted this Year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc.						
Commercial:— Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc.					3	3
Agricultural and Pastoral:— Farmers, Gardeners, Stock Men, etc.						
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc.						
Mechanics, etc., at Sedentary Vocations:— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc.					15	15
Domestic Service:— Waiters, Cooks, Servants, etc.		5	5		75	75
Education and Higher Domestic Duties: Governesses, Teachers, Students, Housekeepers, Nurses, etc.		8	8		123	123
Miners, Marine Engineers, Railway Employees, Seamen, etc.						
Laborers						
No Occupation		3	3		66	66
Unascertained						
Totals		16	16		282	282

TABLE No. 5—COBOURG.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospital.

Counties and Districts.	Admitted during year.			Admitted since opening.			Warrant cases. Admitted during year.			Warrant cases. Admitted since opening.			Remaining in residence.		
	Male.	Female.	Total	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District															
Brant					2	2					2	2		1	1
Bruce[1]					1	1								1	1
Carleton					2	2					1	1		2	2
Dufferin															
Dundas					2	2								2	2
Durham		1	1		22	22		1	1		3	3		7	7
Elgin					2	2								2	2
Essex					1	1					1	1			
Frontenac					10	10					5	5		8	8
Glengarry					2	2									
Grenville															
Grey					6	6					3	3		6	6
Haldimand															
Halton					2	2					1	1		1	1
Hastings					9	9					3	3		4	4
Huron					6	6					4	4		3	3
Kent					2	2					1	1		1	1
Lambton					5	5					1	1		2	2
Lanark					1	1								1	1
Leeds															
Lennox and Addington					6	6					4	4		1	1
Lincoln					5	5					3	3		3	3
Middlesex					13	13					4	4		8	8
Muskoka District															
Nipissing District					1	1								1	1
Norfolk															
Northumberland		2	2		23	23					6	6		10	10
Ontario		1	1		15	15					9	9		7	7
Oxford					5	5					2	2		1	1
Parry Sound District															
Peel		1	1		3	3					2	2		2	1
Perth					3	3					2	2		2	2
Peterborough		1	1		17	17					6	6		9	9
Prescott															
Prince Edward					2	2								2	2
Rainy River District															
Renfrew					2	2					1	1		1	1
Russell															
Simcoe		1	1		10	10					4	4		8	8
Stormont					2	2					1	1		1	1
Thunder Bay District															
Victoria		1	1		12	12					5	5		5	5
Waterloo															
Welland															
Wellington					5	5					2	2		2	2
Wentworth					9	9					4	4		4	4
York		8	8		73	73		3	3		44	44		43	43
Unascertained					1	1					1	1		1	1
Totals		16	16		282	282		4	4		125	125		152	152

TABLE No. 6—COBOURG.

Showing the assigned causes of insanity in the cases admitted during year.

Causes.	Men.	Women	Total.	Inherited Predisposition.			Unascertained.
				Men.	Women.	Total.	
Moral.							
Adverse Conditions (such as loss of friends, business troubles, etc.)	.....	2	2	.....	.....	.....	.....
Mental Strain, Worry and Overwork (not included in above)	.....	4	4	.....	2	2	.....
Religious Excitement	.....	.....	.....	.....	.....	.....	.....
Love Affairs, including seduction	.....	.....	.....	.....	.....	.....	.....
Fright and Nervous Shock	.....	.....	.....	.....	.....	.....	.....
Physical.							
Alcoholism	.....	.....	.....	.....	.....	.....	.....
Sexual Excess	.....	.....	.....	.....	.....	.....	.....
Venereal Diseases	.....	.....	.....	.....	.....	.....	.....
Masturbation	.....	.....	.....	.....	.....	.....	.....
Insolation	.....	.....	.....	.....	.....	.....	.....
Accident or Injury	.....	.....	.....	.....	.....	.....	.....
Pregnancy	.....	1	1	.....	.....	.....	.....
Parturition and Puerperium	.....	.....	.....	.....	.....	.....	.....
Lactation	.....	.....	.....	.....	.....	.....	.....
Climacteric Period	.....	.....	.....	.....	.....	.....	.....
Fevers	.....	.....	.....	.....	.....	.....	.....
Privation and Overwork	.....	.....	.....	.....	.....	.....	.....
Epilepsy	.....	.....	.....	.....	.....	.....	.....
Other Convulsive Diseases	.....	.....	.....	.....	.....	.....	.....
Diseases of Brain and Skull	.....	.....	.....	.....	.....	.....	.....
Senility	.....	.....	.....	.....	.....	.....	.....
Exophthalmic Goitre	.....	.....	.....	.....	.....	.....	.....
Epidemic Influenza	.....	.....	.....	.....	.....	.....	.....
Abuse of Drugs	.....	.....	.....	.....	.....	.....	.....
Loss of Special Sense	.....	.....	.....	.....	.....	.....	.....
Uræmia	.....	.....	.....	.....	.....	.....	.....
Other Auto-infection	.....	.....	.....	.....	.....	.....	.....
Other Bodily Diseases	.....	.....	.....	.....	.....	.....	.....
Hereditary.							
Congenital Defect	.....	1	1	.....	.....	.....	.....
Unascertained	.....	8	8	.....	14	14	.....
Not Insane	.....	.....	.....	.....	.....	.....	.....
Totals	.....	16	16	.....	16	16	.....

TABLE No. 7—COBOURG.

Showing hereditary tendency to insanity in patients admitted during the year and since the opening of the Hospital.

	Admitted During Year.			Since Opening.		
	Male	Female	Total	Male	Female	Total
Paternal Branch					7	7
Maternal Branch					15	15
Paternal and Maternal Branches		2	2		6	6
Collateral Branches		2	2		27	27
No Hereditary Tendency		8	8		193	193
Unascertained		4	4		34	34
Totals		16	16		282	282

TABLE No. 8—COBOURG.

Showing summary of probational discharges during the year.

	Male.	Female.	Total.
Number Granted Probational Discharge			
Discharged, Recovered while on Probation			
" Improved " " "			
" Unimproved " " "			
Died while on Probation			
Returned to Hospital			
Absent on Probation on October 31st, 1912			

TABLE No. 9—COBOURG.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Specific Infectious Diseases:—						
Typhoid Fever						
Influenza					1	1
Cerebro-spinal Meningitis						
Diphtheria						
Erysipelas						
Septicæmia						
Dysentery		3	3		5	5
Syphilis						
Tuberculosis		2	2		8	8
Constitutional Diseases:—						
Rheumatism					1	1
Arthritis Deformans						
Diabetes Mellitus						
Diseases of the Digestive System:—						
Mouth, salivary glands						
Pharynx						
Tonsils						
Œsophagus						
Diseases of the Intestines:—						
Diseases of the Liver						
Diseases of the Pancreas						
Diseases of the Peritoneum					1	1
Diseases of the Rectum (Prolapse)					1	1
Diseases of the Respiratory System:—						
Diseases of the Nose and Larynx						
" " Bronchi					1	1
" " Lungs					11	11
" " Pleura						
Diseases of the Circulatory System:—						
Diseases of the Pericardium						
" " Heart		3	3		15	15
Arterio-sclerosis						
Aneurism						
Diseases of the Blood and Ductless Glands:—						
Anæmia						
Pernicious Anæmia						
Leukæmia						
Exophthalmic Goitre						
Diseases of the Genito-Urinary System					2	2
Carried Forward		8	8		46	46

TABLE No. 9—COBOURG—*Continued.*

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	.....	8	8	.....	46	46
Diseases of the Nervous System:—						
Diseases of the Nerves	.....	.....	.....	.....	.....	.....
" " Spinal Cord	.....	.....	.....	.....	.....	.....
" " Meninges	.....	.....	.....	.....	1	1
Organic Diseases of the Brain, (Tumor, Abscess, Embolism, Thrombosis, Hæmorrhage, and other gross lesions)	.....	1	1	.....	4	4
Functional Nervous Diseases, (Paralysis Agitans, Chorea, Eclampsia, Hysteria)	.....	.....	.....	.....	.....	.....
Epilepsy	.....	.....	.....	.....	2	2
Mental Diseases:—						
Exhaustion of Acute Mental Disease	.....	.....	.....	.....	3	3
Exhaustion of Chronic Mental Disease	.....	2	2	.....	10	10
General Paresis	.....	.....	.....	.....	1	1
Intoxications:—						
Alcoholism	.....	.....	.....	.....	.....	.....
Morphinism	.....	.....	.....	.....	.....	.....
Metallic Poisoning	.....	.....	.....	.....	.....	.....
Heat Stroke	.....	.....	.....	.....	1	1
Debility of Old Age	.....	3	3	.....	19	19
Accident	.....	.....	.....	.....	.....	.....
Suicide	.....	.....	.....	.....	.....	.....
Surgical Diseases	.....	1	1	.....	3	3
Gynæcological Diseases	.....	.....	.....	.....	.....	.....
Malignant new Growths, or Cancer	.....	1	1	.....	3	3
Totals	.....	16	16	.....	93	93

TABLE No. 10—COBOURG.

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses :—									
(a) Fever Delirium	....	....	....	....	....	....	....	....	....
(b) Infection Delirium	....	....	....	....	....	....	....	....	....
(c) Post Infection Psychoses	....	....	....	....	....	....	....	....	....
Exhaustion Psychoses :—									
(a) Collapsed Delirium	....	....	....	....	....	....	....	....	....
(b) Acute Confusional Psychoses	....	....	....	....	....	....	....	....	....
(c) Neurasthenia	....	....	....	....	....	....	....	....	....
Intoxication Psychoses :									
(a) Acute Intoxications	....	....	....	....	....	....	....	....	....
(b) Chronic "	....	....	....	....	....	....	....	....	....
(a) Alcoholism (acute and chronic)	....	....	....	....	....	....	....	....	....
(b) Delirium Tremens	....	....	....	....	....	....	....	....	....
(c) Korsakow's Psychoses	....	....	....	....	....	....	....	....	....
(d) Acute Alcoholic Hallucinosis	....	....	....	....	....	....	....	....	....
(e) Alcoholic Hallucinatory Dementia	....	....	....	....	....	....	....	....	....
(f) " Paranoia	....	....	....	....	....	....	....	....	....
(g) " Paresis	....	....	....	....	....	....	....	....	....
(h) Morphinism	....	....	....	....	....	....	....	....	....
(i) Cocainism	....	....	....	....	....	....	....	....	....
Thyroigenous Psychoses :—									
(a) Mixœdematous Psychoses	....	....	....	....	....	....	....	....	....
(b) Cretinism	....	....	....	....	....	....	....	....	....
Dementia Præcox :—									
(a) Hebaphrenic	....	7	7	....	....	....	....	3	3
(b) Catatonic	....	2	2	....	....	....	....	....	....
(c) Paranoid	....	3	3	....	....	....	....	....	....
General Paresis	....	....	....	....	....	....	....	....	....
Organic Dementias :—									
(a) Cerebral Sclerosis	....	....	....	....	....	....	....	....	....
(b) Huntingdon's Chorea	....	....	....	....	....	....	....	....	....
(c) Multiple Sclerosis	....	....	....	....	....	....	....	....	....
(d) Cerebral Syphilis	....	....	....	....	....	....	....	....	....
(e) Tabetic Psychoses	....	....	....	....	....	....	....	....	....
(f) Arterio Sclerotic Psychoses	....	....	....	....	....	....	....	....	....
(g) Cerebral Tumor, Abscess, Hæmorrhage	....	....	....	....	....	....	....	....	....
Involution Psychoses :—									
(a) Melancholia	....	....	....	....	....	....	....	....	....
(b) Pre-senile Delusional Psychoses	....	1	1	....	....	....	....	....	....
(c) Senile Dementia	....	1	1	....	....	....	....	8	8
Manic Depressive Psychoses :—									
(a) Manic States	....	....	....	....	....	....	....	....	....
(b) Depressed States	....	....	....	....	....	....	....	3	3
(c) Mixed States	....	....	....	....	....	....	....	1	1
Carried Forward	....	14	14	....	....	....	....	15	15

TABLE No. 10—COBOURG—*Continued.*

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	....	14	14	....	....	....	....	15	15
Paranoia	....	....	....	....	....	....	....	....	....
Psychoses from Constitutional Neuroses :—									
(a) Epileptic Psychoses	....	....	....	....	....	....	....	....	....
(b) Hysterical Psychoses	....	....	....	....	....	....	....	....	....
(c) Sexualis Psychopathia	....	....	....	....	....	....	....	....	....
States of Deficient Mental Development :—									
(a) Imbecility	....	2	2	....	....	....	....	1	1
(b) Idiocy	....	....	....	....	....	....	....	....	....
Not Diagnosed	....	....	....	....	....	....	....	....	....
Not Insane	....	....	....	....	....	....	....	....	....
Totals	....	16	16	....	....	....	....	16	16

TABLE No. 11—COBOURG.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1912.	Periods of treatment of those who were discharged recovered during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treatment of those who died during the year.
Under 1 month	.....	8	.....	.....	.....	.....
From 1 to 2 months	1	.....	.....	.....	.....	.....
" 2 " 3 "	.....	.....	.....	.....	.....	.....
" 3 " 4 "	.....	1	.....	.....	.....	1
" 4 " 5 "	.....	.....	.....	.....	.....	.....
" 5 " 6 "	.....	1	.....	.....	.....	.....
" 6 " 9 "	.....	3	.....	.....	.....	.....
" 9 " 12 "	1	.....	.....	.....	.....	.....
" 12 " 18 "	3	13	.....	.....	.....	5
" 18 months to 2 years	3	11	.....	.....	.....	.....
" 2 to 3 years	.....	10	.....	.....	.....	1
" 3 " 4 "	.....	10	.....	.....	.....	1
" 4 " 5 "	.....	5	.....	.....	.....	1
" 5 " 10 "	.....	90	.....	.....	.....	1
" 10 " 15 "	2	.....	.....	.....	.....	6
" 15 " 20 "	1	.....	.....	.....	.....	.....
" 20 years and upwards	2	.....	.....	.....	.....	.....
Unascertained	3	.....	.....	.....	.....	.....
Totals	16	152	.....	.....	.....	16

HOSPITAL FOR THE INSANE, HAMILTON.

November 18th, 1912.

E. R. Rogers, Esq.,

Inspector of Hospitals for Insane, Province of Ontario,
Toronto, Ontario.

Sir,—In accordance with the Statutory requirements I have the honour to submit herewith the 37th Annual Report of this Hospital for the official year ending Oct. 31st, 1912.

Our population at the commencement of the term was 612 men and 639 women, and there were admitted by certificate 59 men, 83 women and by warrant 56 men and 15 women, and at present we have under our care 1,274 patients.

Accommodation.

By the completion of the building at Hickory Farm and certain rearrangements in the Main Building and Orchard House we have been enabled to increase our bed capacity from 625 for men and 624 for women to 656 and 639 respectively, and thus have now a total capacity for 1,295, and if occasion should demand we can take a dormitory that will accommodate ten patients off the female basement dining-room in the Main Building at a nominal expense.

General Health.

This has been excellent and we suffered from no contagious diseases until early in August when there was an outbreak of typhoid fever. Sixteen cases in all have occurred and unfortunately two had a fatal termination.

Work Done.

The placing in conduits of all electric wiring on the male side of the Main Building necessitated a large amount of work by our own men as well as two or three paid experienced hands, and by May 1st the full connections were made and a much improved and safer service established.

We now have in each room or corridor a ceiling light independent of the hall system and placed in sections of five to eight under one switch in a central panel box. By this means the night watch is able to turn on a series and much more rapidly and efficiently examine the patients than formerly when the uncertain lantern was in use, and also one tract is turned off while another is on and thus the lighting peak load is not increased materially.

The Hydro-Electric system has added very much to the efficiency of the lighting of the buildings and grounds besides supplying power, and thus enabling us to do away with the steam plants except for auxiliary purposes at the Queen St. Pumping Station and the Main Building. We have also been enabled to discard the small steam plant at the farm barn and now chop our corn for silage, and hay for dairy cattle, and crush the grain by electric power.

Also by the transfer to Hickory Farm of the sixteen horse power motor we were able to cut the silage at practically no cost and thus save the renting of a steam outfit for two or more days.

Infirmary Kitchen.

This only remains to be partially plastered and second floors laid, and when completed will undoubtedly add greatly to the convenience and sanitary condition of the place.

Orchard House Verandahs.

The steel work for the four has been erected by our own employees and the cement and wood work on two of them will, we hope, be completed by Christmas, and when done they will certainly add much to the comfort of the patients and stability of the building.

Gardener's Residence.

This building is now well under way and by January 1st it is expected that the roof will be completed. In connection with this place we laid over 2,000 feet of 1½ inch galvanized iron pipe to supply the house with water, hereby providing for possible irrigation of garden stuff should the season prove dry as in 1911. For the purpose of drainage of surface water there was laid from this residence over 800 ft. of 6 in. tile and to it were connected a number of the garden surface drains.

"Boulderwood"—A five foot wire fence with iron posts and upper iron rail has been erected along the mountain face, the posts being sunk in the solid rock and cemented therein and about 3,000 ft. in all were constructed. Along the James St. front of this property three iron standards and electric lights have been put up which light effectually this section of an otherwise dark roadway.

Walks, Etc.

Over 1,00 ft. of 4½ ft. cement walk has been constructed along the "hospital" road and about the Infirmary.

Cold Storage.

The reconstruction and enlargement of the cold storage at the Slaughter House was completed in time to put in an adequate ice supply of 300 tons in an overhead chamber in place of on the same level as the storage section, and it has been found to work most satisfactorily. We also erected two large sections in the Orchard House kitchen. With our own help there was cut and stored from the ice pond at Hickory Farm over one thousand tons, and owing to the favorable season twice that quantity could have been taken off had it been required.

Through the kindness of Mr. S. A. Armstrong, Assistant Provincial Secretary, we were able to borrow from the Central Prison Farm, Guelph, a stone crusher, which with our movable 15 horse power motor, enabled us to crush one thousand tons of stone. In the use of the finer material in concrete work we were thus able to dispense with fully fifty loads of gravel and save in cash an amount that would more than repay transportation charges. We believe that the providing of such an apparatus for this Hospital would fully recoup us for the outlay in a short time.

Main Building, Hamilton.

At Hickory Farm the new hot water boiler was installed and the very efficient heating system was completed, as was also the installation of baths, sinks, etc. There was also a considerable amount of cement walk constructed about the Main Building thereat.

Continuous Baths.

On both the male and female side of the Main Building twin continuous baths have been completed and the patients have frequently been much benefited by their use.

Plumbing.

Replacement of all closets on the female and male sections of the Main Building, Orchard House and Shack, with the modern "Institution" apparatus without wooden or metal seats, has been completed, and adequate slop sinks have been placed in each lavatory.

For the providing of hot water for scalding hogs, etc., at the Slaughter House a small steam boiler has been installed.

Pumping Station—New cement floors have been put in both electric equipment room and storage section, and new walks laid about the buildings and residence.

Crops.

The excessively wet season interfered very much with the spring plowing and seeding, and subsequently with the proper caring for the hay and grain crop, and as a consequence what promised to be one of the most abundant yields of oats will hardly come up to the average owing to the hundreds of bushels that "shelled out" and remained in the fields.

Likewise we experienced great difficulty in successfully spraying and caring for the potatoes, and though the yield is abundant the "blight" has done considerable damage and together with the excessive moisture which has caused rotting fully 25 per cent. were left on the land and another 25 per cent. will be undoubtedly lost in culling during the later months in the root cellars.

Garden produce had a rank growth and the yield, estimated at 176 tons, is more abundant than for any previous season, partially on account of the excessive moisture and more particularly due to the increased amount of fertilizing material we were able to procure; in fact there has been considerable waste owing to inability to consume that supplied to the several buildings by the Gardener.

Likewise the apple crop has been very abundant and though we have not been able to use up the softer fall varieties there has been placed in storage a sufficient quantity of the hardier classes to keep up a supply until the early fruits come in again in the spring.

Changes in Staff.

The unfortunate death on Oct. 16th, from Typhoid Fever, of Dr. Edwin F. Jeffries, who by his painstaking efforts and gentlemanly actions had much endeared himself to all his co-workers and patients, left a vacancy which has not yet been permanently filled.

After a prolonged illness Wm. Addison, who for 17 years had been our efficient and ever willing Assistant Carpenter and latterly had paid more special attention to our cold storage propositions, passed over to the majority.

In March, Dr. Wm. A. Marshall who had been with us from the previous July was transferred to Mimico and Dr. Kenneth T. McLean of Toronto succeeded him.

At the end of August Dr. Edward Fidler, Pathologist, who had jointly looked after our requirements and those of the City Board of Health and General Hospital, resigned to assume the position of Professor of Bacteriology, etc., in the School of Preventive Medicine in London—a position for which we think him fully qualified.

On April 30th, Miss Ella Carr, Chief Female Attendant, resigned to be married and for six months Miss I. McMillan, Supervisor of Hall 3, Main Building, has in a most satisfactory manner attended to those duties in addition to her own.

Great honor was done this Hospital and the work of the Provincial Training Schools in the choice of two of our most promising 1912 Graduates, who had just completed a three months post-graduate course in the General Hospital here, as Lady Superintendent and Head of the Surgical Department of the Prince Albert, Sask., General Hospital, and we feel assured that in the work of Misses Cassie L. Shaw and May Sharpe there will be no disappointment.

The usual changes among the Nurses and Attendants have taken place but we have fortunately been able to keep up a full male and fairly complete female staff.

Requirements.

Water Supply.

We are yet without adequate water pressure on the upper halls of the Main Building, and there is also an almost constant shortness in both Orchard House and the Infirmary and Shack, owing to the small electric turbine pump in the West Boiler House not having sufficient capacity to keep up the supply. However, we trust that the new system to be installed for the Main Building will relieve the present pump and amply supply our demands.

Central Boiler House.

As mentioned in previous reports we are fully convinced that a central boiler house, in which could be placed the five plants now used for the several buildings and three additional furnaces from Officers' residences, should be erected, as heating by the vacuum system could be much more economically and efficiently done all from one centre.

The Orchard House plant is most inefficient and ineffective, and will have to be thoroughly overhauled before next season. In this boiler house we would also suggest the placing of an up-to-date garbage incinerator.

Power Elevators.

Since the fire of 1911 we have been without an elevator for the transfer of food supplies on the male side of the Main Building from the basement to the third floor, and it is necessary for parties of men to carry up and down three flights of stairs three times daily all provisions and supplies and return refuse. The other three elevators in the Main Building, as also that in the Laundry, are well nigh worn out and should be replaced by modern apparatus run by electric power.

Orchard House, Hamilton.

Greenhouses.

Our present greenhouses are entirely inadequate for the requirements of an institution of this size, and we would urge that plans be prepared for an entirely new structure to be erected in the garden adjacent to the Gardiner's new residence.

Roothouse.

Much increased accommodation for the storage of vegetables is required by the Gardener, and we believe that at a comparatively small cost a suitable shed 200 ft. by 30 ft. could be erected in the garden by our own employees, as we can quarry all the stone necessary for the walls during the coming winter.

Storage Sheds.

Buildings for the storage of wagons, implements, etc., are urgently needed as many of them are constantly exposed to the weather, and we now have a design for one at the main barn 115 ft. by 32 ft. in size, and a considerable amount of stone is on the ground.

At the garden also an implement shed and stable with accommodation for six horses should be erected, and we believe that a building 150 ft. by 32 ft. would be adequate.

Main Building.

The lighting, heating and ventilation of the "wing" of Hall 3, Main Building, is entirely insufficient, and if bay windows similar to those constructed in the refitting of Hall C. were put in to replace the present small oval "look outs" much benefit would be derived, and then also a new steam supply pipe from the basement with increased radiating surface might supply the other want.

Ice House.

Now that we are in a position to supply all the ice necessary for domestic use from our own pond it is found that the main storage house is insufficient in size to hold an adequate amount, and we would suggest that a fifty foot addition be added to the west end thereof and that proper landing stages, etc., be constructed for filling; all of this work could be done by our own labor.

Employees' Work Rooms.

We believe that much more efficient and abundant work could be done if a separate building were provided for the several branches of work such as the tailor and tailoresses' department, the sewing and dressmaking rooms, and the upholstering and mattress-making sections, and believe that in the near future some such place should be considered.

Preserving Plant

A small plant could be economically installed to care for our surplus vegetables and fruit and thus save the considerable waste that has occurred this season.

Wood Working Machinery.

Now that we have ample electric power the time is opportune for the introduction of machinery in the Carpenters' shop, and with an addition thereto much more rapid and efficient work could be done if we had a circular saw, a plane, etc.

Dairy Barn.

The returns from the herd continue to improve and we were pleased to notice that one three year old pure bred cow now under test gave 1,999 lbs., or about one ton of milk during the month of October.

Reconstruction of the barn yard is urgently needed and we trust that with the assistance of Mr. Todd, Farm Director, a workable scheme may be devised with a proper carrier system from the several buildings.

Salaries.

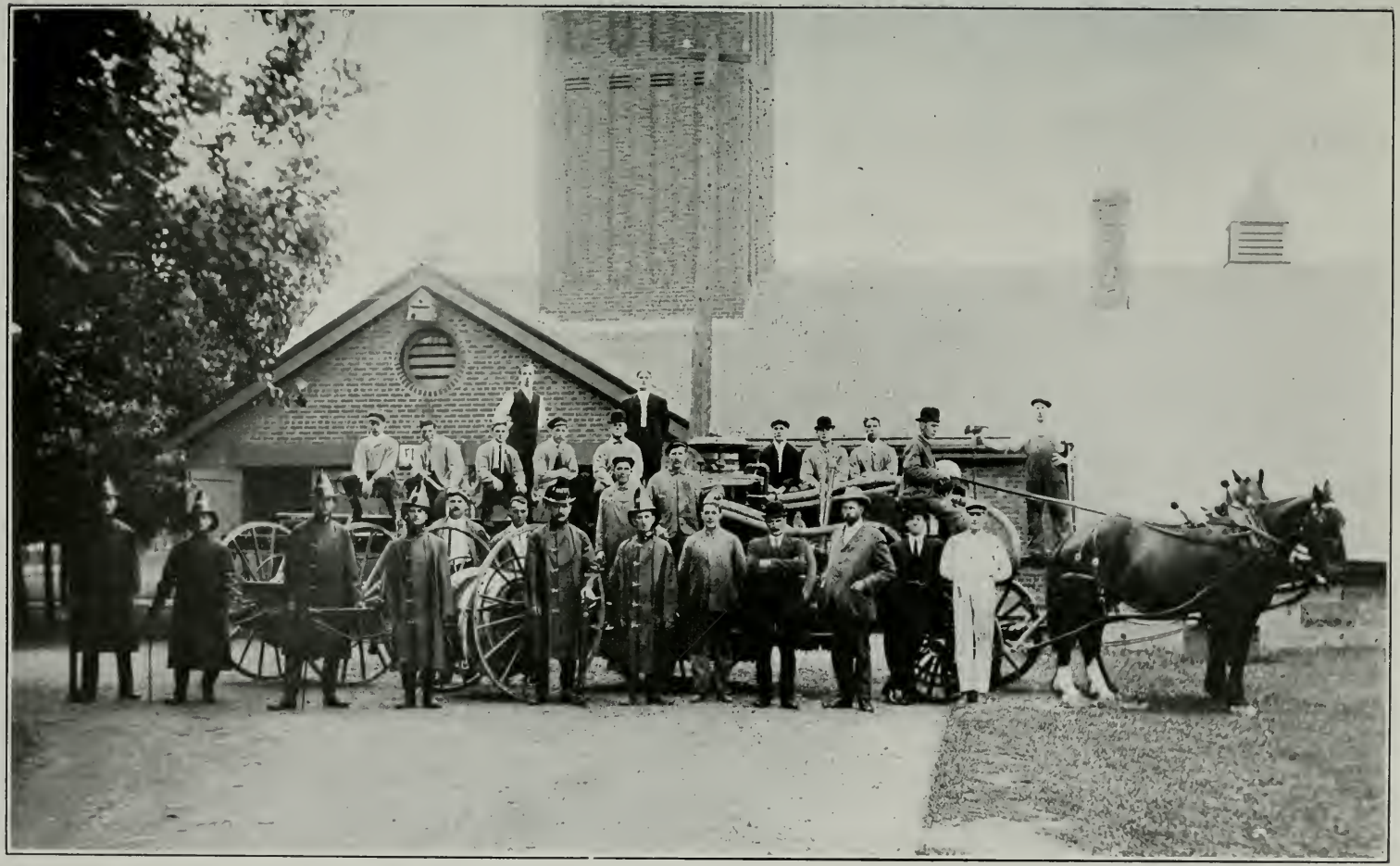
Again I desire to call your attention to the matter of increase in salaries—with the increased cost of living and greater demands made upon slender purses now than a few years ago we believe that there should be a material increase granted commencing with the Chief Officer and going right down the list.

Thanking you most heartily for your most cordial assistance and advice, I am,

Your obedient servant,

W. M. English,

Superintendent.



Fire Brigade, Hamilton.

ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR INSANE, HAMILTON, FOR THE YEAR ENDING OCTOBER 31ST, 1912.

TABLE No. 1—HAMILTON.

Showing movements of patients in the Hospital for the official year ending October 31st, 1912.

	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	656	639	1,295			
In residence October 31st, 1911	.....	.....	.....	612	639	1,251
Admitted during year 1911-12:						
By Warrant	56	15	71			
By Medical Certificate	59	83	142	115	98	213
Total number under treatment during year 1911-1912	.....	.....	.....	727	737	1,464
Discharges during year:—						
As recovered	11	14	25			
" improved	25	32	57			
" unimproved	1	.....	1			
" not insane	.....	.....	.....			
Total number discharged during year.	37	46	83			
Died	27	51	78			
Deported	7	1	8			
Eloped	3	.....	3			
Transferred	.....	1	1	74	99	173
Remaining in Hospital October 31st, 1912	.....	.....	.....	653	638	1,291
Total number admitted since opening of Hospital	.....	.....	.....	2,982	2,973	5,955
Total number discharged since opening of Hospital	1,086	1,266	2,352			
Total number died since opening of Hospital	920	817	1,737			
Total number deported since opening of Hospital	24	5	29			
Total number eloped since opening of Hospital	97	9	106			
Total number transferred since opening of Hospital	202	238	440	2,329	2,335	4,664
Total remaining in Hospital October 31st, 1912	.....	.....	.....	653	638	1,291
Daily average population	632	639	1,271			
Collective days' stay of all patients in residence during year	231,488	234,172	465,660			
Number of applications on fyle	10	4	14			

TABLE No. 2—HAMILTON.

Showing social state and religion of patients admitted during the year and since opening of Hospital.

	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
SOCIAL STATE.						
Single	56	23	79	1,595	1,230	2,825
Married	59	75	134	1,387	1,743	3,130
Widowed						
Divorced						
Separated						
Unascertained						
Totals	115	98	213	2,982	2,973	5,955
RELIGION.						
Baptists	2	7	9	168	194	362
Congregationalists		1	1	18	15	33
Church of England	29	17	46	555	519	1,074
Methodists	25	23	48	700	737	1,437
Presbyterians	25	23	48	563	567	1,130
Roman Catholics	22	10	32	514	544	1,058
Other Denominations	10	16	26	313	308	621
Unascertained	2	1	3	151	89	240
Totals	115	98	213	2,982	2,973	5,955

Part of Herd of Holsteins, Hamilton.

TABLE No. 3—HAMILTON.

Showing nativity of patients admitted during the year and since opening of Hospital.

Nativity.	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Total Admissions	115	98	213	2,982	2,973	5,955
Total born in Canada	72	66	138	1,811	1,866	3,677
Armenia						
Assyria						
Austria	1		1	3	1	4
Australia						
Belgium				1		1
Bulgaria						
Central America						
China						
Denmark						
England	20	16	36	442	310	752
France				2		2
Finland				1		1
Galicia				2		2
Germany	1	2	3	1	3	4
Greece				9	12	21
Holland				1		1
Hungary	2		2	2		2
Ireland	4	5	9	280	396	676
Italy	1		1	6	1	7
Japan						
Macedonia						
Other British Possessions				95	88	183
Norway						
Roumania				2		2
Russia	4	2	6	6	4	10
Scotland	7	5	12	190	175	365
South America				2	1	3
Spain						
Sweden				2		2
Turkey						
United States	3	2	5	68	74	142
West Indies						
Unascertained				56	42	98
Totals	115	98	213	2,982	2,973	5,955

TABLE No. 4—HAMILTON.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

Occupation.	Admitted this Year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc.	1	.....	1	48	2	50
Commercial:— Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc.	17	.....	17	143	27	170
Agricultural and Pastoral:— Farmers, Gardeners, Stock Men, etc.	23	.....	23	882	3	885
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc.	17	.....	17	231	2	233
Mechanics, etc., at Sedentary Vocations:— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc.	10	2	12	328	96	424
Domestic Service:— Waiters, Cooks, Servants, etc.	.....	11	11	8	595	603
Education and Higher Domestic Duties: Governesses, Teachers, Students, Housekeepers, Nurses, etc.	1	85	86	81	1,827	1,908
Miners, Marine Engineers, Railway Employees, Seamen, etc.	1	.....	1	25	.....	25
Laborers	45	.....	45	812	4	816
No Occupation	.....	.....	.....	144	194	338
Unascertained	.....	.....	.....	280	223	503
Totals	115	98	213	2,982	2,973	5,955

TABLE No. 5—HAMILTON.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospital.

Counties and Districts.	Admitted during year.			Admitted since opening.			Warrant cases. Admitted during year.			Warrant cases. Admitted since opening.			Remaining in residence.		
	Male.	Female.	Total	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District ..	....	....	....	13	6	19	....	....	....	12	1	13	5	...	5
Brant	5	7	12	164	188	352	3	....	3	67	39	106	39	49	88
Bruce	....	....	....	7	19	26	....	....	....	6	8	14	1	2	3
Carleton	....	....	....	10	11	21	....	....	....	9	7	16	...	3	3
Dufferin.....	3	4	7	53	62	115	2	1	3	29	17	46	12	18	30
Dundas	....	....	....	2	3	5	....	....	....	2	1	3	1	...	1
Durham	....	....	....	10	17	27	....	....	....	9	7	16	...	2	2
Elgin.....	....	....	....	7	7	14	....	....	....	3	2	5	2	...	2
Essex	....	....	....	6	1	7	....	....	....	3	1	4	2	...	2
Frontenac	....	....	....	28	9	37	....	....	....	27	3	30	2	1	3
Glengarry	....	....	....	5	4	9	....	....	....	4	1	5	3	...	3
Grenville	....	....	....	4	3	7	....	....	....	4	2	6	1	1	2
Grey	7	7	14	207	158	365	4	....	4	132	62	194	60	53	113
Haldimand	3	1	4	124	123	247	4	....	4	55	22	77	22	22	45
Halton	....	3	3	99	103	202	....	....	....	42	25	67	20	21	41
Hastings.....	....	....	....	6	8	14	....	....	....	6	6	12	...	...	....
Huron.....	....	....	....	5	12	17	....	....	....	2	3	5	1	...	1
Kent	....	....	....	7	7	14	....	....	....	6	1	7	2	...	2
Lambton	....	....	....	11	5	16	1	....	1	9	1	10	4	...	4
Lanark.....	1	....	1	1	3	4	....	....	....	1	1	2	...	...	....
Leeds	....	....	....	4	5	9	....	....	....	4	4	8	1	1	2
Lennox and Addington	....	....	....	10	1	11	....	....	....	9	....	9	...	...	....
Lincoln	10	3	13	155	169	324	4	....	4	90	47	137	38	38	76
Middlesex	....	....	....	21	14	35	....	....	....	11	8	19	4	2	6
Muskoka District .	....	....	....	17	2	19	....	....	....	10	2	12	4	...	4
Nipissing District.	....	....	....	11	7	18	....	....	....	53	37	90	6	6	12
Norfolk	3	3	6	115	117	232	1	1	2	11	5	16	24	25	49
Northumberland ..	....	....	....	26	17	43	....	....	....	14	8	22	1	1	2
Ontario.....	....	....	....	27	34	61	....	....	....	21	21	42	4	2	6
Oxford	1	2	3	18	18	36	....	....	....	13	10	23	5	...	5
Parry Sound Dist .	....	....	....	5	6	11	....	....	....	5	3	8	1	2	3
Peel.....	....	....	....	20	27	47	....	....	....	6	8	14	4	5	9
Perth	....	....	....	7	11	18	....	....	....	7	7	14	3	2	5
Peterborough	....	....	....	10	17	27	....	....	....	10	11	21	...	...	....
Prescott.....	....	....	....	3	7	10	....	....	....	3	6	9	...	2	2
Prince Edward ...	....	....	....	5	2	7	....	....	....	3	2	5	4	...	4
Quebec Province ..	....	....	....	1	.....	1	....	....	....	1	....	1	1	...	1
Rainy River Dist..	....	1	1	6	1	7	....	1	1	6	1	7	4	1	5
Renfrew.....	....	....	....	5	2	7	....	....	....	4	....	4	...	...	....
Russell.....	....	....	....	.....	1	1	....	....	....	.....	1	1	...	1	1
Simcoe	1	....	1	217	162	379	....	....	....	151	82	233	20	12	32
Stormont.....	....	....	....	6	3	9	....	....	....	5	1	6	5	...	5
Thunder Bay Dist.	....	....	....	10	3	13	....	....	....	10	2	12	6	1	7
Victoria	1	....	1	13	22	35	1	....	1	11	18	29	2	1	3
Waterloo	8	13	21	186	190	376	2	1	3	97	32	129	57	68	125
Welland	8	9	17	149	186	335	1	....	1	61	34	95	33	42	75
Wellington	9	7	16	261	282	543	3	....	3	96	44	140	55	67	122
Wentworth	52	37	89	692	696	1,388	30	11	41	191	100	291	175	155	330
York	1	1	2	205	219	244	....	....	....	168	161	329	23	28	51
Unascertained	2	....	2	7	2	9	....	....	....	2	1	3	4	3	7
New Brunswick ..	....	....	....	1	.....	1	....	....	....	.....	.....	.....	1	...	1
United States	....	....	....	.....	1	1	....	....	....	.....	.....	.....	...	1	1
Total	115	98	213	2,982	2,973	5,955	56	15	71	1,502	866	2,368	653	638	1291

TABLE No. 6—HAMILTON.

Showing the assigned causes of insanity in the cases admitted during year.

Causes.	Men.	Women	Total.	Inherited Predisposition.			Un-ascertained.
				Men.	Women.	Total.	
Moral.							
Adverse Conditions (such as loss of friends, business troubles, etc.)	8	1	9	8	1	9	.....
Mental Strain, Worry and Overwork (not included in above)	6	18	24	5	14	19	.....
Religious Excitement	7	6	13	6	6	12	.....
Love Affairs, including seduction	7	11	18	7	11	18	.....
Fright and Nervous Shock	4	8	12	4	7	11	.....
Physical.							
Alcoholism	18	1	19	14	1	15	.....
Sexual Excess	2	.....	2	2	.....	2	.....
Venereal Diseases	1	.....	1	1	.....	1	.....
Masturbation	4	.....	4	4	.....	4	.....
Insolation	1	.....	1	1	.....	1	.....
Accident or Injury	4	.....	4	3	.....	3	.....
Pregnancy	.....	1	1	.....	1	1	.....
Parturition and Puerperium	.....	4	4	.....	4	4	.....
Lactation	.....	1	1	.....	1	1	.....
Climacteric Period	.....	.....	.....	.....	.....	.....	.....
Fevers	.....	1	1	.....	1	1	.....
Privation and Overwork	3	2	5	4	1	5	.....
Epilepsy	7	6	13	7	6	13	.....
Other Convulsive Diseases	.....	.....	.....	.....	.....	.....	.....
Diseases of Brain and Skull	6	2	8	6	2	8	.....
Senility	10	16	26	9	14	23	.....
Exophthalmic Goitre	.....	.....	.....	.....	.....	.....	.....
Epidemic Influenza	1	.....	1	.....	1	1	.....
Abuse of Drugs	.....	.....	.....	.....	.....	.....	.....
Loss of Special Sense	.....	.....	.....	.....	.....	.....	.....
Uræmia	.....	.....	.....	.....	.....	.....	.....
Other Auto-infection	.....	.....	.....	.....	2	2	.....
Other Bodily Diseases	2	.....	2	2	.....	2	.....
Hereditary.							
Congenital Defect	.....	.....	.....	.....	.....	.....	.....
Unascertained	24	20	44	32	25	57	.....
Not Insane	.....	.....	.....	.....	.....	.....	.....
Totals	115	98	213	115	98	213	.....

TABLE No. 7—HAMILTON.

Showing hereditary tendency to insanity in patients admitted during the year and since the year 1908.

	Admitted During Year			Since Opening		
	Male	Female	Total	Male	Female	Total
Paternal Branch	3	4	7	61	31	92
Maternal Branch	7	5	12	55	41	96
Paternal and Maternal Branches	8	15	23	14	21	35
Collateral Branches	2	1	3	49	71	120
No Hereditary Tendency	37	26	63	181	170	351
Unascertained	58	47	105	148	114	263
Totals	115	98	213	509	448	957

TABLE No. 8—HAMILTON.

Showing summary of probational discharges during the year.

	Male.	Female.	Total.
Number Granted Probational Discharge	28	41	69
Discharged, Recovered while on Probation	5	9	14
" Improved " " "	8	19	27
" Unimproved " " "	.....	.....	.....
Died while on Probation	.....	.....	.....
Returned to Hospital while on Probation	5	6	11
Absent on Probation on October 31st, 1912	10	7	17
	28	41	69

TABLE No. 9—HAMILTON.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Specific Infectious Diseases :—						
Typhoid Fever	1	.....	1	4	1	5
Influenza	.....	.....	.....	2	2	4
Cerebro-spinal Meningitis	.....	.....	.....	.....	.....	.....
Diphtheria	.....	.....	.....	.....	.....	.....
Erysipelas	.....	.....	.....	11	6	17
Septicæmia	2	1	3	11	5	16
Dysentery	.....	.....	.....	13	14	27
Syphilis	.....	.....	.....	.....	.....	.....
Tuberculosis	.....	3	3	137	158	295
Constitutional Diseases :—						
Rheumatism	.....	.....	.....	.....	1	1
Arthritis Deformans	.....	.....	.....	.....	.....	.....
Diabetes Mellitus	.....	.....	.....	1	.....	1
Diseases of the Digestive System :—						
Mouth, salivary glands	.....	.....	.....	.....	.....	.....
Pharynx	.....	.....	.....	.....	.....	.....
Tonsils	.....	.....	.....	.....	.....	.....
Œsophagus	.....	.....	.....	.....	.....	.....
Enteritis	.....	.....	.....	5	13	18
Diseases of the Intestines :—						
Diseases of the Liver	.....	.....	.....	3	9	12
" " Pancreas	.....	.....	.....	.....	.....	.....
" " Peritoneum	.....	.....	.....	9	8	17
Intestinal Obstruction	.....	.....	.....	5	3	8
Diseases of the Respiratory System :—						
Diseases of the Nose and Larynx	.....	.....	.....	1	.....	1
" " Bronchi	.....	.....	.....	3	1	4
" " Lungs	5	4	9	57	35	92
" " Pleura	.....	.....	.....	1	2	3
Diseases of the Circulatory System :						
Diseases of the Pericardium	.....	.....	.....	.....	.....	.....
" " Heart	4	5	9	67	47	114
Arterio-sclerosis	1	3	4	11	7	18
Aneurism	.....	.....	.....	2	.....	2
Diseases of the Blood and Ductless Glands :—						
Anæmia	.....	1	1	2	5	7
Pernicious Anæmia	.....	.....	.....	8	10	18
Leukæmia	.....	.....	.....	.....	.....	.....
Exophthalmic Goitre	.....	.....	.....	.....	.....	.....
Purpuro Hæmorrhage	.....	.....	.....	3	3	6
Diseases of the Genito-Urinary System	.....	3	3	20	14	34
Carried Forward	13	20	33	276	344	720

TABLE No. 9—HAMILTON—*Continued.*

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	13	20	33	276	344	720
Diseases of the Nervous System :—						
Diseases of the Nerves	.....	.....	.....	.....	.....	.....
" " Spinal Cord.....	.....	.....	.....	.....	.....	.....
" " Meninges.....	.....	.....	.....	1	6	7
Organic Diseases of the Brain— (Tumor, Abscess, Embolism, Thromboids, Hæmorrhage, and other gross legions).....	2	2	4	52	56	108
Functional Nervous Diseases, (Paralysis Agitans, Chorea, Eclampsia, Hysteria).....	.....	.....	.....	1	1	2
Epilepsy	1	3	4	85	46	131
Mental Diseases :—						
Exhaustion of Acute Mental Disease	1	5	6	47	107	154
Exhaustion of Chronic Mental Disease	1	10	11	64	79	143
General Paresis.....	3	3	6	134	18	152
Intoxications :—						
Alcoholism	.....	.....	.....	.....	.....	.....
Morphinism	.....	.....	.....	.....	.....	.....
Metallic Poisoning.....	.....	.....	.....	.....	.....	.....
Heat Stroke	.....	.....	.....	.....	.....	.....
Debility of Old Age	6	.....	6	116	108	224
Accident	.....	1	1	14	2	16
Suicide.....	.....	2	2	7	15	22
Surgical Diseases.....	.....	5	5	12	10	22
Gynæcological Diseases.....	.....	.....	.....	.....	2	2
Malignant New Growths, or Cancer	.....	.....	.....	11	23	34
Totals	27	51	78	920	817	1,737

TABLE No. 10—HAMILTON.

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses:—									
(a) Fever Delirium	....	....	....	....	....	....	....	2	2
(b) Infection Delirium	1	1	2	1	....	1	....	....	....
(c) Post Infection Psychoses	....	....	....	....	....	....	....	....	....
Exhaustion Psychoses:—									
(a) Collapsed Delirium	1	3	4	1	1	2	....	....	....
(b) Acute Confusional Psychoses	....	1	1	....	1	1	....	....	....
(c) Neurasthenia	1	1	2	1	1	2	....	....	....
Intoxication Psychoses:—									
(a) Acute Intoxication	....	2	2	....	....	....	....	....	....
(b) Chronic "	....	1	1	....	....	....	....	....	....
(a) Alcoholism (acute and chronic)	11	....	11	5	2	7	1	....	1
(b) Delirium Tremens	1	....	1	1	....	1	....	....	....
(c) Korsakow's Psychoses	....	....	....	....	....	....	....	....	....
(d) Acute Alcoholic Hallucinosis	5	....	5	1	....	1	....	....	....
(e) Alcoholic Hallucinatory Dementia	1	....	1	....	....	....	....	....	....
(f) " Paranoia	1	....	1	1	....	1	....	....	....
(g) " Paresis	....	....	....	....	....	....	....	....	....
(h) Morphinism	....	....	....	....	1	1	....	....	....
(i) Cocainism	....	....	....	....	....	....	....	....	....
Thyroigenous Psychoses:—									
(a) Mixœdematous Psychoses	....	....	....	....	....	....	....	....	....
(b) Cretinism	....	....	....	....	....	....	....	....	....
Dementia Praecox:									
(a) Hebaphrenic	12	7	19	2	2	4	1	2	3
(b) Catatonic	16	23	39	5	11	16	....	7	7
(c) Paranoid	14	13	27	7	5	12	3	4	7
General Paresis	8	....	8	1	....	1	5	1	6
Organic Dementias:—									
(a) Cerebral Sclerosis	....	....	....	....	....	....	....	....	....
(b) Huntingdon's Chorea	....	....	....	....	....	....	....	....	....
(c) Multiple Sclerosis	....	....	....	....	....	....	....	....	....
(d) Cerebral Syphilis	....	....	....	....	....	....	....	....	....
(e) Tabetic Psychoses	....	....	....	....	....	....	....	....	....
(f) Arterio Sclerotic Psychoses	1	....	1	....	....	....	....	2	2
(g) Cerebral Tumor, Abscess, Hæmorrhage	2	....	2	....	....	....	1	....	1
Involution Psychoses:—									
(a) Melancholia	4	6	10	....	6	6	2	3	5
(b) Pre-senile Delusional Psychoses	....	2	2	....	3	3	....	....	....
(c) Senile Dementia	12	17	29	3	2	5	11	14	25
Manic Depressive Psychoses:—									
(a) Manic States	7	10	17	2	5	7	....	5	5
(b) Depressed States	4	3	7	3	5	8	1	4	5
(c) Mixed States	1	....	1	....	....	....	....	3	3
Carried Forward	103	90	193	34	45	79	25	47	69

TABLE No. 10—HAMILTON—*Continued.*

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	103	90	193	34	45	79	25	47	69
Paronia	....	....	....	....	....	....	....	....	....
Psychoses from Constitutional Neuroses:—									
(a) Epileptic Psychoses	5	6	11	1	....	1	2	3	5
(b) Hysterical Psychoses	1	....	1	1	....	1	....	....	....
(c) Sexualis Psychopathia	....	....	....	....	....	....	....	....	....
States of Deficient Mental Development:—									
(a) Imbecility	5	2	7	1	....	1	....	....	....
(b) Idiocy	1	....	1	....	....	....	....	1	1
Not Diagnosed	....	....	....	....	1	1	....	....	....
Not Insane	....	....	....	....	....	....	....	....	....
Total	115	98	213	37	46	83	27	51	78

TABLE No. 11—HAMILTON.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1912.	Periods of treatment of those who were discharged recovered during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treatment of those who died during the year.
Under 1 month	44	15	1	3	1	13
From 1 to 2 months	16	21	1	2	.....	3
" 2 " 3 "	16	17	.....	3	.....	3
" 3 " 4 "	12	19	.....	1	.....	3
" 4 " 5 "	8	10	1	3	.....	2
" 5 " 6 "	7	16	4	3	.....	1
" 6 " 9 "	13	43	1	14	.....	1
" 9 " 12 "	4	26	4	5	.....	5
" 12 " 18 "	14	86	4	3	.....	2
" 18 months to 2 years	6	46	5	4	.....	6
" 2 to 3 years	11	75	2	8	.....	2
" 3 " 4 "	5	68	2	1	.....	5
" 4 " 5 "	10	69	.....	.....	.....	3
" 5 " 10 "	13	254	.....	3	.....	4
" 10 " 15 "	8	190	.....	.....	.....	6
" 15 " 20 "	3	146	.....	2	.....	5
" 20 years and upwards	4	190	.....	2	.....	14
Unascertained	19	.....	.....	.....	.....	.....
Totals	213	1,291	25	57	1	78

ROCKWOOD HOSPITAL FOR INSANE, KINGSTON.

To E. R. Rogers, Esq.,

Inspector of Prisons and Public Charities.

Sir.—I have the honour to submit report of Rockwood Hospital for the Insane, Kingston, for the year ending October 31, 1912. The year just passed has been in many respects both interesting and profitable.

The number of admissions is the largest in the history of the hospital. We do not in any way conclude from this that insanity is on the increase. We are fully assured the increased number seeking treatment is due, in a large measure, to better methods, and to wider knowledge of the therapeutics of these methods, on the part of the profession and of the public. Beside this there are a great number from outside the Rockwood district seeking treatment here.

One feature of our admission list gives pleasure, namely, the ever-lessening number of patients now being admitted by warrant. We trust the time is near at hand when there will be no warrant cases to report.

The discharge list this year has been large, the largest in the history of the hospital. We are safe in stating that the discharge list increasing from year to year is due, in the main, to the improved methods of treatment and nursing.

The deaths from tuberculosis are so numerous as to merit attention. Of the fifty-five deaths during the year, twelve were due to this disease. It might be well to consider if some system could not be devised for the isolation of tubercular patients.

Our nursing staff, I am glad to say, is showing year by year an ever-increasing efficiency. We have been led by experience to introduce the trained nurse quite generally, until every ward but one throughout the entire hospital is under the direct charge of trained nurses. The results are most satisfactory; the wards present a different appearance; the patients are decidedly improved; there is less noise and confusion, and the whole tone of the hospital is decidedly elevated.

We are endeavoring to organize our work here in such a manner that we may be able to undertake original investigation, and engage in higher research work. Already we have worked out some interesting and valuable experiments, and the results of our labors will be published at a later date. I am fully convinced that this work should be encouraged by the Department, and provision made in each hospital that it may be carried on with method and with system. There is probably no department of medical science that offers a wider field for research work than that in which we are engaged. True it may take time to achieve any marked results, but if in the end light can be shed on the cause of insanity, and information gained as to prevention and treatment, then the labor expended will not be in vain. Our research laboratory is now about completed, and from now on this department will be vigorously worked.

The results of our treatment at Rockwood have been so successful that we are led to enlist the sympathy and co-operation of the profession in the work we are doing, and to place before the profession and the public the ends at which we aim. For this purpose we are holding meetings of the profession in the various centres throughout the Rockwood district. Already a number of meetings have been held and with most gratifying results. Later it is our intention to establish a social system where the patients may be nursed in their own homes, under

Main Building, Kingston.

direction of the family physician, but under nurses trained at Rockwood Hospital. Were this principle once established it seems to us the patient would be brought under better medical direction, in the earlier stages of the disease, and before permanent lesions were made.

We have under construction at the present time additions and alterations to our sewage plant; when these are completed we hope to have safe and modern sanitary conditions as to water and sewage.

It is our intention during the coming season to make extensive changes and improvements in the hospital, all of which were brought to your attention when the estimates were submitted. We trust funds will be available for these much-needed and desirable improvements.

The year just closed has been one of great satisfaction, both from a clinical and scientific standpoint, and we look forward with hope and confidence to the successful issue of future labors.

The traditional spirit of Rockwood was never more loyal or more zealous.

I have the honor to be, Sir,

Your obedient servant,

E. Ryan,

Medical Superintendent.

ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR INSANE, KINGSTON, FOR THE YEAR ENDING OCTOBER 31st, 1912.

TABLE No. 1—KINGSTON.

Showing movements of patients in the Hospital for the official year ending October 31st, 1912.

	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	311	282	593			
In residence, November 31st, 1911				297	262	553
Admitted during year 1911-1912:						
By Warrant	9	2	11			
By Medical Certificate	70	63	133	79	65	144
Total number under treatment during year				376	327	703
Discharges during year:—						
As recovered	23	22	45			
" improved	17	22	39			
" unimproved	2		2			
" not insane	1		1			
Total number discharged during year.	43	44	87			
Died	30	25	55			
Deported	2		2			
Eloped	4		4			
Transferred	1	1	2	80	70	150
Remaining in Hospital, October 31st, 1912				296	257	553
Total number admitted since opening of Hospital				2,537	2,197	4,734
Total number discharged since opening of Hospital	1,102	1,015	2,117			
Total number died since opening of Hospital	810	622	1,432			
Total number deported since opening of Hospital	6	2	8			
Total number eloped since opening of Hospital	79	1	80			
Total number transferred since opening of Hospital	244	300	544	2,241	1,940	4,181
Total remaining in Hospital October 31st, 1912				296	257	553
Daily average population	301	261	562			
Collective days' stay of all patients in residence during year	110,377	95,601	205,978			
Number of applications on fyle	48	44	92			

One of the Corridors, Kingston.

TABLE No. 2—KINGSTON.

Showing social state and religion of patients admitted during the year and since opening of Hospital.

	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Social State.						
Single	45	26	71	1,470	954	2,434
Married	24	30	54	1,037	1,198	2,235
Widowed	10	9	19	23	33	56
Divorced	.....	.....	.....	.....	1	1
Separated	.....	.....	.....	7	1	8
Unascertained	.....	.....	.....	.....	.....	.....
Totals	79	65	144	2,537	2,197	4,734
Religion.						
Baptists	2	.....	2	46	40	86
Congregationalists	.....	.....	.....	10	6	16
Church of England	8	13	21	492	412	904
Methodists	26	23	49	579	555	1,134
Presbyterians	10	14	24	378	365	743
Roman Catholics	26	12	38	787	687	1,474
Other Denominations	3	2	5	169	98	267
Unascertained	4	1	5	76	34	110
Totals	79	65	144	2,537	2,197	4,734

TABLE No. 3—KINGSTON.

Showing nativity of patients admitted during the year and since opening of Hospital.

Nativity.	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Total Admissions	79	65	144	2,537	2,197	4,734
Total born in Canada	63	54	117	1,718	1,522	3,240
Armenia						
Assyria	1		1	2		2
Austria						
Australia						
Belgium						
Bulgaria						
Central America						
China						
Denmark						
England	2	7	9	210	143	353
France	1		1	2	1	3
Finland				1	2	3
Galicia					1	1
Germany	2		2	34	17	51
Greece						
Holland						
Hungary						
Ireland	4	1	5	332	303	635
Italy				3		3
Japan						
Macedonia						
Other British Possessions				6	4	10
Norway						
Roumania						
Russia				13	2	15
Scotland	2		2	92	93	185
Switzerland				6		6
Spain						
Sweden	2		2	3		3
Turkey						
United States	2	3	5	33	28	61
West Indies				1	1	2
Other Countries				4	8	12
Unascertained				77	72	149
Totals	79	65	144	2,537	2,197	4,734

Continuous Baths, Kingston.

TABLE No. 4—KINGSTON.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

Occupation.	Admitted this Year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc.	4	.....	4	62	2	64
Commercial:— Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc.	10	2	12	176	5	181
Agricultural and Pastoral:— Farmers, Gardeners, Stock Men, etc.	26	.....	26	775	4	779
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc.	8	.....	8	244	.....	244
Mechanics, etc., at Sedentary Vocations:— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc.	1	.....	1	174	134	308
Domestic Service:— Waiters, Cooks, Servants, etc.	.....	7	7	26	463	489
Education and Higher Domestic Duties: Governesses, Teachers, Students, Housekeepers, Nurses, etc.	.....	45	45	27	1,158	1,185
Miners, Marine Engineers, Railway Employees, Seamen, etc.	.....	.....	.....	61	.....	61
Laborers	20	.....	20	722	.....	722
No Occupation	6	11	17	95	172	267
Unascertained	4	.....	4	132	180	312
Other Occupations	.....	.....	.....	43	79	122
Totals	79	65	144	2,537	2,197	4,734

TABLE No. 5—KINGSTON.

Showing the Counties and Districts from which patients have been admitted during the year and since opening of Hospital.

Counties and Districts.	Admitted during year.			Admitted since opening.			Warrant cases. Admitted during year.			Warrant cases. Admitted since opening.			Remaining in residence.		
	Male.	Female.	Total	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District				3	2	5				3	2	5			
Brant				6	7	13				6	7	13			
Bruce				3	6	9				3	5	8			
Carleton	1		1	204	163	367				166	125	291	30	15	45
Dufferin															
Dundas				37	33	70							4	3	7
Durham	4	6	10	47	44	91		2	2	8	5	13		8	8
Elgin				3	4	7				3	4	7			
Essex				3	2	5				3	2	5			
Frontenac	19	16	35	494	467	961				167	106	273	49	72	121
Glengarry				55	53	108							5	5	10
Grenville				58	52	110							1	2	3
Grey				7	10	17				7	9	16		1	1
Haldimand				6	7	13				6	6	12			
Halton				3	2	5				2	1	3			
Hastings	16	10	26	265	224	489	3		3	132	66	198	52	30	82
Huron				6	5	11				6	5	11			
Kent				4	1	5				4		4		1	1
Lambton				12	2	14				12	2	14			
Lanark				125	125	250				97	87	184	9	6	15
Leeds	1	1	2	84	77	161				79	57	136	9	6	15
Lennox and Addington	2	9	11	185	164	349				93	46	139	22	22	44
Lincoln				9	7	16				9	5	14			
Middlesex				9	6	15				6	4	10	1		1
Muskoka District				1	1	2					1	1			
Nipissing District					1	1					1	1			
Norfolk				7	5	12				7	5	12	1		1
Northumberland	8	9	17	130	161	291	3		3	84	64	148	38	27	65
Ontario				19	23	42				18	22	40			
Oxford				14	4	18				14	3	17			
Parry Sound District															
Peel				4	1	5				4	1	5			
Perth				10	9	19				10	9	19			
Peterborough	1	4	5	10	21	31				8	8	16	3	2	5
Prescott				48	30	78				41	24	65	1	2	3
Prince Edward	6	2	8	103	78	181	1		1	35	17	52	22	13	35
Rainy River District				1		1				1		1			
Renfrew	16	7	23	193	177	370				58	22	80	30	28	58
Russell					2	2								1	1
Simcoe				13	12	25				12	11	23	1		1
Stormont				55	48	103				111	73	184	4	4	8
Thunder Bay District				1		1							1		1
Victoria				5	13	18				5	12	17	1		1
Waterloo				12	4	16				12	4	16			
Welland				6	5	11				6	5	11		1	1
Wellington				6	4	10				4	4	8			
Wentworth				17	21	38				14	13	27	2	3	5
York		1	1	45	65	110				35	50	85	6	4	10
Unascertained	4		4	207	48	255	2		2	29	7	36	4	1	5
New Brunswick					1	1									
Quebec	1		1	2											
Total	79	65	144	2,537	2,197	4,734	9	2	11	1,320	900	2,220	296	257	553

Nurses' Home, Kingston.

TABLE No. 6—KINGSTON.

Showing the assigned causes of insanity in the cases admitted during year.

Causes.	Men.	Women	Total.	Inherited Predisposition.			Un-ascertained.
				Men.	Women.	Total.	
Moral.							
Adverse Conditions (such as loss of friends, business troubles, etc.)	12	9	21				
Mental Strain, Worry and Overwork (not included in above)	9	12	21				
Religious Excitement	1	1	2				
Love Affairs, including seduction		4	4				
Fright and Nervous Shock	1		1		1	1	
Physical.							
Alcoholism	10	1	11	4	5	9	
Sexual Excess							
Venereal Diseases	6		6				
Masturbation							
Insolation		1	1				
Accident or Injury		1	1				
Pregnancy							
Parturition and Puerperium		2	2				
Lactation		1	1				
Climacteric Period		5	5				
Fevers		1	1				
Privation and Overwork		1	1				
Epilepsy							
Other Convulsive Diseases	4	1	5				
Diseases of Brain and Skull							
Senility	4	4	8		1	1	
Exophthalmic Goitre					2	2	
Epidemic Influenza							
Abuse of Drugs	2		2				
Loss of Special Sense							
Uræmia				1		1	
Other Auto-infection	2	3	5				
Other Bodily Diseases	8	3	11	10	6	16	
Hereditary.							
Congenital Defect	2		2	17	16	33	
Unascertained	17	15	32	46	34	80	
Not Insane	1		1	1		1	
Totals	79	65	144	79	65	144	

TABLE No. 7—KINGSTON.

Showing hereditary tendency to insanity in patients admitted during the year and since the opening of the Hospital.

	Admitted during year.			Since 1908.		
	Male.	Female.	Total.	Male.	Female.	Total.
Paternal Branch	10	11	21	43	45	88
Maternal Branch	4	5	9	37	35	72
Paternal and Maternal Branches	1	2	3	9	7	16
Collateral Branches	4	6	10	26	27	53
No Hereditary Tendency	.....	1	1	21	17	38
Unascertained	59	40	99	174	133	307
Not Insane	1	.....	1	1	.....	1
Totals	79	65	144	311	264	575

TABLE No. 8—KINGSTON.

Showing summary of Probational discharges during the year.

	Male.	Female.	Total.
Number granted Probational Discharge	28	17	45
Discharged, Recovered while on Probation	11	4	15
" Improved " "	4	6	10
" Unimproved " "	.....	.....	.....
Died while on Probation	.....	.....	.....
Returned to Hospital	9	3	12
Absent on Probation on Oct. 31st, 1912	4	4	8

TABLE No. 9—KINGSTON.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			ince 1908.		
	Male.	Female.	Total.	Male.	Female.	Total.
Specific Infectious Diseases:—						
Typhoid Fever				1	1	2
Influenza						
Cerebro-spinal Meningitis						
Diphtheria						
Erysipelas						
Septicæmia	1		1	3		3
Dysentery					1	1
Syphilis				2		2
Tuberculosis	5	7	12	20	18	38
Constitutional Diseases:—						
Rheumatism						
Arthritis Deformans						
Diabetes Mellitus		1	1		1	1
Diseases of the Digestive System:—						
Mouth, salivary glands						
Pharynx						
Tonsils						
Œsophagus						
Diseases of the Intestines:—					1	1
Diseases of the Liver					1	1
Diseases of the Pancreas	1		1	1		1
Diseases of the Peritoneum	1		1	4		4
Intestinal Obstruciont	1		1	1		1
Diseases of the Respiratory System:—						
Diseases of the Nose and Larynx						
" " Bronchi						
" " Lungs	5	6	11	16	13	29
" " Pleura						
Diseases of the Circulatory System:—						
Diseases of the Pericardium		1	1		1	1
" " Heart	3		3	12	9	21
Arterio-sclerosis	1		1	5	1	6
Aneurism				1		1
Diseases of the Blood and Ductless Glands:—						
Anæmia						
Pernicious Anæmia						
Leukæmia						
Exophthalmic Goitre						
Adrenal Glands		1	1		1	1
Diseases of the Genito-Urinary System	1		1	2	2	4
Carried Forward	19	16	35	68	50	118

TABLE No. 9—KINGSTON—*Continued.*

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since 1908.		
	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	19	16	35	68	50	118
Diseases of the Nervous System:—						
Diseases of the Nerves						
" " Spinal Cord						
" " Meninges						
Organic Diseases of the Brain, (Tumor, Abscess, Embolism, Thrombosis, Hæmorrhage, and other gross lesions)	2	3	5	8	10	18
Functional Nervous Diseases, (Paralysis Agitans, Chorea, Eclampsia, Hysteria)						
Epilepsy	1	1	2	2	2	4
Mental Diseases:—						
Exhaustion of Acute Mental Disease	1	1	2	5	1	6
Exhaustion of Chronic Mental Disease				1	3	4
General Paresis	4		4	13	1	14
Intoxications:—						
Alcoholism						
Morphinism						
Metallic Poisoning						
Heat Stroke						
Debility of Old Age	2	1	3	7	4	11
Accident				3		3
Suicide	1		1	2		2
Surgical Diseases					1	1
Gynæcological Diseases						
Malignant New Growths, or Cancer		3	3		6	6
Totals	30	25	55	109	78	187

TABLE No. 10—KINGSTON.

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses:—									
(a) Fever Delirium									
(b) Infection Delirium									
(c) Post Infection Psychoses	2	1	3	1	1	2			
Exhaustion Psychoses:—									
(a) Collapsed Delirium									
(b) Acute Confusional Psychoses	2		2	2		2			
(c) Neurasthenia	2		2	3		3			
Intoxication Psychoses:—									
(a) Acute Intoxications									
(b) Chronic "	1		1						
(a) Alcoholism (acute and chronic)	7		7	7	1	8	1		1
(b) Delirium Tremens									
(c) Korsakow's Psychoses		1	1		1	1			
(d) Acute Alcoholic Hallucinosis	1		1						
(e) Alcoholic Hallucinatory Dementia									
(f) " Paranoia									
(g) " Paresis Pseudo	1		1						
(h) Morphinism	1		1	1		1			
(i) Cocainism		1	1						
Thyroigenous Psychoses:—									
(a) Hypothyrogenous Psychoses		3	3		1	1			
(b) Cretinism									
Hyperthyrogenous	2	2	4	1	3	4			
Dementia Præcox:—									
(a) Hebaphrenic	4	7	11	1	3	4	1	1	2
(b) Catatonic	3	2	5		1	1	2	3	5
(c) Paranoid	3	8	11	1	5	6	3		3
General Paresis	6		6				4	1	5
Organic Dementias:—									
(a) Cerebral Sclerosis									
(b) Huntingdon's Chorea									
(c) Multiple Sclerosis	2	1	3	1	1	2			
(d) Cerebral Syphilis	1		1	1		1			
(e) Tabetic Psychoses									
(f) Arterio-sclerotic Psychoses	1		1				2		2
(g) Cerebral Tumor, Abscess, Hæmorrhage									
Involution Psychoses:—									
(a) Melancholia									
(b) Pre-senile Delusional Psychoses					2	2			
(c) Senile Dementia	4	1	5	1	2	3	4	6	10
Manic Depressive Psychoses:—									
(a) Manic States	9	16	25	12	8	20	3	2	5
(b) Depressed States	11	17	28	5	10	15	5	6	11
(c) Mixed States					2	2			
Carried Forward	63	60	123	37	41	78	25	19	44

TABLE No. 10—KINGSTON—*Continued.*

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	63	60	123	37	41	78	25	19	44
Paranoia	5	....	5	2	....	2	1	....	1
Psychoses from Constitutional Neuroses:—									
(a) Epileptic Psychoses	3	2	5	....	....	....	3	4	7
(b) Hysterical Psychoses	....	1	1	....	1	1	....	....	....
(c) Sexualis Psychopathia	....	....	....	....	....	....	....	....	....
States of Deficient Mental Development:—									
(a) Imbecility	4	2	6	3	2	5	1	2	3
(b) Idiocy	....	....	....	....	....	....	....	....	....
Not Diagnosed	3	....	3	2	....	2	....	....	....
Not Insane	1	....	1	1	....	1	....	....	....
Totals	79	65	144	45	44	89	30	25	55

TABLE No. 11—KINGSTON.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1912	Periods of treatment of those who were discharged recovered during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treatment of those who died during the year.
Under 1 month	25	7	6	2	1	6
From 1 to 2 months	22	12	6	5	....	3
" 2 " 3 "	6	7	8	2	....	....
" 3 " 4 "	6	7	5	5	....	1
" 4 " 5 "	1	9	5	1	....	2
" 5 " 6 "	....	6	3	1	1	....
" 6 " 9 "	6	14	7	3	....	3
" 9 " 12 "	3	12	....	6	....	1
" 12 " 18 "	4	18	2	3	....	3
" 18 months to 2 years	2	14	2	1	....	2
" 2 to 3 years	11	29	....	3	....	5
" 3 " 4 "	3	21	....	1	....	6
" 4 " 5 "	5	21	....	1	....	2
" 5 " 10 "	19	87	1	5	....	5
" 10 " 15 "	5	77	....	....	....	5
" 15 " 20 "	3	79	....	....	....	3
From 20 years and upwards	2	133	....	....	....	8
Not stated	20	....	....	....	....	....
Not insane	1	....	....	....	....	....
Totals	144	553	45	39	2	55

HOSPITAL FOR INSANE, LONDON.

To Edwin R. Rogers, Esq.,

Inspector of Prisons and Asylums,

Toronto, Ontario.

Sir, -I beg to present the Forty-second Annual Report of the Hospital for Insane, London, for the year ending October 31st, 1912:

—	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	511	555	1,066			
In Residence, Oct. 31st, 1911	.....	.....	.....	533	561	1,094
Admitted during year 1911 and 1912:						
By Warrant	40	11	51			
By Medical Certificate	61	95	156	101	106	207
Total under treatment during year	.....	.....	.....	634	667	1,301
Discharges during year;						
As recovered	25	31	56			
" improved	21	21	42			
" unimproved	4	4	8			
" not insane	1	.....	1			
Total number discharged during year	51	56	107			
Died	51	42	93			
Deported	2	2	4			
Eloped	9	1	10			
Transferred	1	.....	1	114	101	215
Remain in Hospital, Oct. 31st, 1912	.....	.....	.....	520	557	1,086
Total number admitted since opening of Hospital	.....	.....	.....	3,565	3,245	6,810
Total number discharged since opening of Hospital	1,057	1,431	2,938			
Total number died since opening of Hospital	1,156	985	2,141			
Total number deported since opening of Hospital	10	3	13			
Total number eloped since opening of Hospital	127	16	143			
Total number transferred since opening of Hospital	245	244	489	3,045	2,679	5,724
Total remaining in Hospital, 1912	3,045	2,679	5,724	520	556	1,086
Daily average population	530.7	570.5	1099.8			
Collective day's stay of all patients in residence during year	193,706	208,809	402,515			
Number of applications on fyle	3	11	14			

The above table shows a slight decrease in population during the year, owing chiefly to an increased death-rate. Twenty-seven of the deaths occurred during the first year of treatment. There was one suicide during the year; a woman who was regarded as perfectly safe managed to loosen the cord which holds the sash weight in the window and hanged herself. These cords are very dangerous and suggestive, and should be removed. Tuberculosis was the cause of death in ten cases, which is slightly over the average since the opening of the hospital. No

deaths from tuberculosis occurred amongst employees during the past five years. Perhaps the saddest feature of this report is the fact that fourteen deaths are reported as due to general paresis. The average number of deaths per year previously has been 2.74, and as the population has remained practically stationary for many years, this shows a marked increase. Although the death-rate from this disease during the past year has been abnormal, there is little doubt that the disease is increasing. However, a considerable proportion of the increase is more apparent than real, being due to better methods of diagnosis. In any case, the increase here cannot be attributed to new arrivals in this country, as thirteen of these patients were born in Canada.

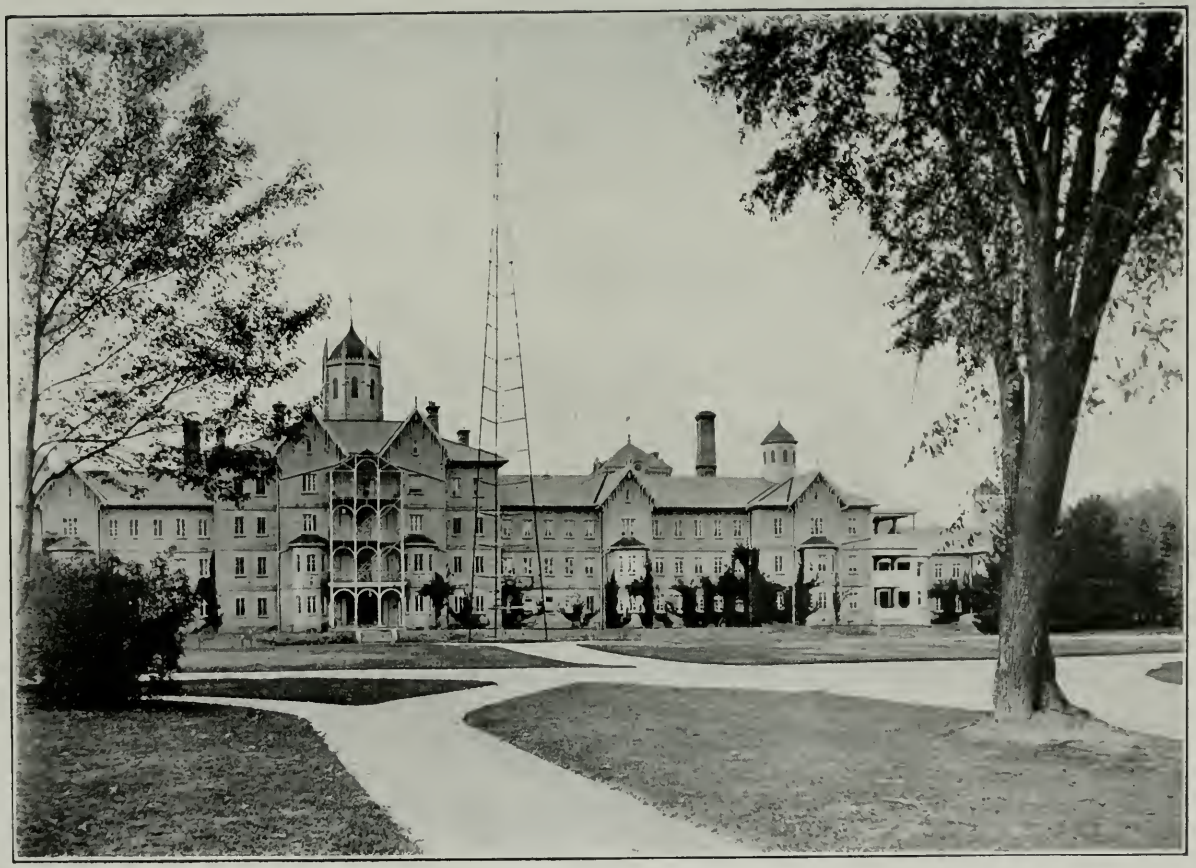
The Fire.

The most important event of the year was the fire which occurred on the night of January 2nd, and destroyed our amusement hall, cannery and kitchen. The origin of the fire, which apparently began in a small room temporarily occupied as an office by the foreman of the electric installation workmen, still remains a mystery. Although, for a time, the destruction of at least a portion of the Main Building appeared almost certain, the good work of the fire brigade held the flames in check until the arrival of the city fire brigade. The two brigades, under the command of Chief Aiken, of the city, were able to pour an enormous quantity of water on the fire, and in a short time had the flames under control. Although the patients in the Main Building were wakened out of their sleep by the deep booming of the fire whistle to find the corridors and dormitories filled with smoke, no particular panic occurred. They were marched quickly to places from which egress could easily be obtained. It was found, however, that several patients, careless of any danger, eluded the vigilance of the nurses and returned to their beds, where, later on, they were discovered quietly sleeping.

Much credit is due to the various employees of this institution for their splendid services, not only in encouraging and controlling the patients, but also in actually fighting the fire. It was a subject of much remark by many in the immense crowd, which soon gathered, that no noise or unusual excitement could be detected in the various buildings.

It was a matter of great satisfaction that our water supply and the fire pressure were both ample, although the new electric pump was not installed at that time. The benefit and importance of fire drill was plainly seen by the behavior of our patients, who had been accustomed for years to quietly and rapidly leave the building at the first sound of the fire whistle. Our practice of placing all infirm, helpless and bed-ridden patients on the ground floor was found to be of the greatest advantage in emptying the wards.

Owing to the enormous amount of water that modern fire fighting apparatus is capable of throwing on a burning building, it was thought better to replace all the four-inch water mains by six-inch mains. This has been done during the past summer, and all our buildings are now surroundeed by six-inch mains and new stand pipes are being placed in the Main and North Buildings. A new 125 h.p. electric fire pump has also been installed during this year. When all improvements are completed we will have an almost perfect fire protection system.



Main Building, London.

Balconies at North Building.

The most important improvement during the year is the erection of balconies and fire escapes at the North Building, only one of which has been completed at the time of writing. These reflect much credit not only on the architect who designed them, but also on the various members of our staff who erected them. They will prove a great boon to our North Building patients, and should be of the greatest service in the case of fire.

Changes on Staff.

Much to our regret, Dr. McFarlane resigned from the staff in March. He was succeeded by Dr. N. A. Morrison, of Elmvale, who gives promise of making a most useful medical officer.

I have the honor to be,

Sir,

Your obedient servant,

W. J. Robinson.

Medical Superintendent.

ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR INSANE, LONDON, FOR THE YEAR ENDING OCTOBER 31st, 1912.

TABLE No. 1—LONDON.

Showing movements of patients in the Hospital for the official year ending October 31st, 1912.

	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	511	555	1,066			
In residence, October 31st, 1911				533	561	1,094
Admitted during year 1911 and 1912:—						
By Warrant	40	11	51			
By Medical Certificate	61	95	156	101	106	207
Total number under treatment during year				634	667	1,301
Discharges during year:—						
As recovered	25	31	56			
" improved	21	21	42			
" unimproved	4	4	8			
" not insane	1	.....	1			
Total number discharged during year.	51	56	107			
Died	51	42	93			
Deported	2	2	4			
Eloped	9	1	10			
Transferred	1	.....	1	114	101	215
Remaining in Hospital, October 31st, 1912				520	556	1,086
Total number admitted since opening of Hospital				3,565	3,245	6,810
Total number discharged since opening of Hospital	1,057	1,431	2,938			
Total number died since opening of Hospital	1,156	985	2,141			
Total number deported since opening of Hospital	10	3	13			
Total number eloped since opening of Hospital	127	16	143			
Total number transferred since opening of Hospital	245	244	489	3,045	2,679	5,724
Total remaining in Hospital, October 31st, 1912	3,045	2,679	5,724	520	556	1,086
Daily average population	530.7	570.5	1,099.8			
Collective days' stay of all patients in residence during year	193,706	208,809	402,515			
Number of applications on fyle	3	11	14			

North Building and Recreation Grounds, London.

TABLE No. 2—LONDON.

Showing social state and religion of patients admitted during the year and since opening of Hospital.

	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Social State.						
Single	47	42	89	1,988	1,249	3,237
Married	44	56	100	1,546	1,953	3,499
Widowed	10	8	18	29	43	72
Divorced				2		2
Separated						
Unascertained						
Totals	101	106	207	3,565	3,245	6,810
Religion.						
Baptists	1	4	5	246	254	500
Congregationalists	1	1	2	31	25	56
Church of England	22	15	37	658	570	1,228
Methodists	24	34	58	841	878	1,719
Presbyterians	18	24	42	789	700	1,489
Roman Catholics	14	16	30	565	539	1,104
Other Denominations	11	4	15	233	167	400
Unascertained	10	8	18	202	112	314
Totals	101	106	207	3,565	3,245	6,810

TABLE No. 3—LONDON.

Showing nativity of patients admitted during the year and since opening of Hospital.

Nativity.	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Total Admissions	101	106	207	3,565	3,245	6,810
Total born in Canada	73	88	161	2,215	2,042	4,257
Armenia						
Assyria	1		1	1	1	2
Austria						
Australia						
Belgium						
Bulgaria						
Central America						
China				1		1
Denmark					2	2
England	13	7	20	463	343	806
France				3	3	6
Finland						
Galicia						
Germany	2	1	3	46	42	88
Greece						
Holland				1		1
Hungary						
Ireland	3	3	6	359	422	781
Italy	1		1	3	3	6
Japan						
Macedonia						
Other British Possessions				6	2	8
Norway						
Roumania						
Russia	1		1	2	3	5
Scotland	5	4	9	265	215	480
South America						
Spain						
Sweden				6		6
Turkey				5		5
United States	1	3	4	110	97	207
West Indies				2	1	3
Unascertained	1		1	77	69	14
Totals	101	106	207	1,350	1,203	2,553

Hospital, London.

TABLE No. 4—LONDON.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

Occupation.	Admitted this Year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc.	4	.....	4	61	25	86
Commercial:— Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc.	6	2	8	268	27	295
Agricultural and Pastoral:— Farmers, Gardeners, Stock Men, etc.	34	.....	34	1,400	121	1,521
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc.	8	.....	8	272	.....	272
Mechanics, etc., at Sedentary Vocations:— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc.	9	2	11	286	111	397
Domestic Service:— Waiters, Cooks, Servants, etc.	.....	21	21	19	473	492
Education and Higher Domestic Duties: Governesses, Teachers, Students, Housekeepers, Nurses, etc.	1	73	74	48	1,950	1,998
Miners, Marine Engineers, Railway Employees, Seamen, etc.	5	.....	5	53	.....	53
Laborers	30	.....	30	902	1	903
No Occupation	4	8	12	70	191	261
Unascertained	....	...	.....	.....	186	346	532
Totals	101	106	207	3,565	3,245	6,810

TABLE No. 5—LONDON.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospital.

Counties and Districts.	Admitted during year.			Admitted since opening.			Warrant cases. Admitted during year.			Warrant cases. Admitted since opening.			Remaining in residence.		
	Male.	Female.	Total	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District	....	....	....	9	7	16	....	....	....	8	2	10	1	...	1
Brant	....	....	....	38	35	73	....	....	....	20	11	31	1	3	4
Bruce	9	4	13	263	209	472	7	1	8	138	72	210	54	50	104
Carleton	....	....	....	4	7	11	....	....	....	.....	2	2	...	....	....
Dufferin	....	....	....	.....	.....	.....	....	....	....	.....	....	.....	...	....	....
Dundas	....	....	....	.....	.....	.....	....	....	....	.....	....	.....	...	....	....
Durham	....	....	....	.....	.....	.....	....	....	....	.....	....	.....	1	...	1
Elgin	8	8	16	244	242	486	2	....	2	71	26	97	43	45	88
Essex	10	10	20	239	206	445	4	1	5	95	55	150	43	49	92
Frontenac	....	....	....	5	8	13	....	....	....	.....	1	1	...	....	....
Glengarry	....	....	....	.....	.....	.....	....	....	....	.....	....	.....	...	....	....
Grenville	....	....	....	.....	.....	.....	....	....	....	.....	....	.....	...	....	....
Grey	2	....	2	19	19	38	1	....	1	10	9	19	5	4	9
Haldimand	....	....	....	22	24	46	....	....	....	11	3	14	...	....	....
Halton	....	....	....	10	7	17	....	....	....	7	3	10	...	1	1
Hastings	....	....	....	5	9	14	....	....	....	2	5	7	...	1	1
Huron	6	11	17	345	333	678	2	1	3	128	75	203	53	63	116
Kent	12	6	18	248	251	499	3	1	4	76	41	117	45	50	95
Lambton	16	18	34	390	291	681	7	3	10	189	61	250	61	44	105
Lanark	....	....	....	3	3	6	....	....	....	.....	1	1	...	....	....
Leeds	....	....	....	.....	5	5	....	....	....	.....	....	.....	...	....	....
Lennox and Addington	....	....	....	3	1	4	....	....	....	1	....	1	...	....	....
Lincoln	....	....	....	11	6	17	....	....	....	8	1	9	...	....	....
Middlesex	20	29	49	856	857	1,713	5	2	7	255	153	408	121	156	277
Muskoka District	....	....	....	.....	.....	.....	....	....	....	.....	....	.....	...	....	....
Nipissing District	....	....	....	.....	.....	.....	....	....	....	.....	....	.....	...	....	....
Norfolk	....	....	....	34	37	71	....	....	....	23	13	36	...	....	....
Northumberland	....	....	....	15	10	25	....	....	....	4	2	6	...	....	....
Ontario	....	....	....	6	13	19	....	....	....	1	7	8	1	...	1
Oxford	9	8	17	301	222	523	5	1	6	144	42	186	34	38	72
Parry Sound District	....	....	....	.....	.....	.....	....	....	....	.....	....	.....	...	....	....
Peel	....	....	....	4	6	10	....	....	....	3	5	8	...	....	....
Perth	8	10	18	295	239	534	4	1	5	132	58	190	47	39	86
Peterborough	....	....	....	1	6	7	....	....	....	1	6	7	...	....	....
Prescott	....	....	....	2	3	5	....	....	....	1	1	2	...	....	....
Prince Edward	....	....	....	1	1	2	....	....	....	.....	1	1	...	1	1
Rainy River District	....	....	....	.....	.....	.....	....	....	....	.....	....	.....	...	....	....
Renfrew	....	....	....	13	21	34	....	....	....	.....	....	.....	...	....	....
Russell	....	....	....	.....	.....	.....	....	....	....	.....	....	.....	...	....	....
Simcoe	....	1	1	6	7	13	....	....	....	5	6	11	...	4	4
Stormont	....	....	....	12	14	26	....	....	....	1	....	1	...	....	....
Thunder Bay District	....	....	....	.....	1	1	....	....	....	.....	....	.....	...	1	1
Victoria	....	....	....	33	22	55	....	....	....	9	9	18	...	....	....
Waterloo	....	....	....	8	7	15	....	....	....	7	7	14	2	2	4
Welland	....	....	....	20	16	36	....	....	....	3	5	8	...	....	....
Wellington	....	....	....	18	24	42	....	....	....	14	11	25	2	1	3
Wentworth	....	....	....	46	48	94	....	....	....	6	9	15	2	2	4
York	1	1	2	31	25	56	....	....	....	30	31	61	2	11	13
Unascertained	....	....	....	5	3	8	....	....	....	1	....	1	2	1	3
Totals	101	106	207	3,565	3,245	6,810	40	11	51	1,404	734	2,138	520	566	1086

South Cottage, London.

TABLE No. 6—LONDON.

Showing the assigned causes of insanity in the cases admitted during year.

Causes.	Men.	Women	Total.	Inherited Predisposition.			Un-ascertained.
				Men.	Women.	Total.	
MORAL.							
Adverse Conditions (such as loss of friends, business troubles, etc.)	3	1	4	25	38	63	144
Mental Strain, Worry and Overwork (not included in above)	6	21	27	.....	.....	.....	.....
Religious Excitement	.....	.....	.....	.....	.....	.....	.....
Love Affairs (including seduction)	.....	1	1	.....	.....	.....	.....
Fright and Nervous Shock	1	1	2	.....	.....	.....	.....
PHYSICAL.							
Alcoholism	5	.....	5	.....	.....	.....	.....
Sexual Excess	.....	.....	.....	.....	.....	.....	.....
Venereal Diseases	7	4	11	.....	.....	.....	.....
Masturbation	1	.....	1	.....	.....	.....	.....
Insolation	.....	.....	.....	.....	.....	.....	.....
Accident or Injury	.....	.....	.....	.....	.....	.....	.....
Pregnancy	.....	.....	.....	.....	.....	.....	.....
Parturition and Puerperium	.....	2	2	.....	.....	.....	.....
Lactation	.....	1	1	.....	.....	.....	.....
Climacteric Period	.....	1	1	.....	.....	.....	.....
Fevers	.....	.....	.....	.....	.....	.....	.....
Privation and Overwork	.....	.....	.....	.....	.....	.....	.....
Epilepsy	6	2	8	.....	.....	.....	.....
Other Convulsive Diseases	.....	.....	.....	.....	.....	.....	.....
Diseases of Brain and Skull	.....	2	2	.....	.....	.....	.....
Senility	9	5	14	.....	.....	.....	.....
Exophthalmic Goitre	.....	.....	.....	.....	.....	.....	.....
Epidemic Influenza	.....	.....	.....	.....	.....	.....	.....
Abuse of Drugs	1	4	5	.....	.....	.....	.....
Loss of Special Sense	2	.....	2	.....	.....	.....	.....
Uræmia	.....	.....	.....	.....	.....	.....	.....
Other Auto-infection	.....	.....	.....	.....	.....	.....	.....
Other Bodily Diseases	.....	.....	.....	.....	.....	.....	.....
HEREDITARY.							
Congenital Defect	4	6	10	.....	.....	.....	.....
Unascertained	55	55	110	.....	.....	.....	.....
Not Insane	1	.....	1	.....	.....	.....	.....
Totals	101	106	207	25	38	63	144

TABLE No. 7—LONDON.

Showing hereditary tendency to insanity in patients admitted during the year and since the opening of the Hospital.

	Admitted during year.			Since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Paternal Branch	3	11	14	67	76	143
Maternal Branch	9	12	21	80	99	179
Paternal and Maternal Branches	.....	4	4	17	24	41
Collateral Branches	13	11	24	233	180	413
No Hereditary Tendency	54	53	107	606	612	1,218
Unascertained	22	15	37	192	181	373
Totals	101	106	207	1,195	1,172	2,367

TABLE No. 8—LONDON.

Showing summary of Probational discharges during the year.

	Male.	Female.	Total.
Number Granted Probational Discharges	40	61	101
Discharged, Recovered, while on Probation	14	27	41
" Improved " " "	14	19	33
" Unimproved " " "	.....	.....	.....
Died, while on Probation	.....	.....	.....
Returned to Hospital	8	13	21
Absent on Probation on Oct. 31st, 1912	4	2	6
	40	61	101

TABLE No. 9—LONDON.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Specific Infectious Diseases:—						
Typhoid Fever	.....	.....	.....	5	3	8
Influenza	.....	.....	.....	3	1	4
Cerebro-spinal Meningitis	.....	.....	.....	.....	1	1
Diphtheria	.....	.....	.....	.....	.....	.....
Erysipelas	.....	.....	.....	7	8	15
Septicæmia	.....	3	3	8	8	16
Dysentery	.....	.....	.....	51	66	117
Syphilis	.....	.....	.....	1	1	2
Tuberculosis	5	5	10	154	196	350
Constitutional Diseases:—						
Rheumatism	.....	.....	.....	1	1	2
Arthritis Deformans	.....	.....	.....	1	1	2
Diabetes Mellitus	.....	.....	.....	6	2	8
Diseases of the Digestive System:—						
Mouth, salivary glands	.....	.....	.....	.....	.....	.....
Pharynx	.....	.....	.....	.....	.....	.....
Tonsils	.....	.....	.....	.....	.....	.....
Œsophagus	.....	.....	.....	.....	.....	.....
Diseases of the Intestinus:—						
Diseases of tho Liver	1	.....	1	11	14	25
Diseases of the Pancreas	1	1	2	1	1	2
Diseases of the Peritoneum	3	.....	3	29	20	49
Diseases of the Respiratory System:—						
Diseases of the Nose and Larynx	.....	.....	.....	.....	.....	.....
" " Bronchi	.....	.....	.....	19	12	31
" " Lungs	3	9	12	56	55	111
" " Pleura	.....	.....	.....	5	1	6
Diseases of the Circulatory System:—						
Diseases of the Pericardium	.....	.....	.....	.....	1	1
" " Heart	1	2	3	69	78	147
Arterio-sclerosis	2	.....	2	4	3	7
Aneurism	.....	.....	.....	4	1	5
Diseases of the Blood and Ductless Glands:—	1	.....	1	1	.....	1
Anæmia	.....	2	2	2	3	5
Pernicious Anæmia	.....	1	1	1	1	2
Leucæmia	.....	.....	.....	1	.....	1
Exophthalmic Goitre	.....	.....	.....	1	1	2
Diseases of the Genito-Urinary System	3	.....	3	12	4	16
Carried Forward	20	23	43	453	483	936

TABLE No. 9—LONDON—*Continued.*

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	20	23	43	453	483	936
Diseases of the Nervous System:—						
Diseases of the Nerves.....	.....	.....	.....	5	5	10
" " Spinal Cord	.....	.....	.....	.....	1	1
" " Meninges.....	.....	.....	.....	11	7	18
Organic Diseases of the Brain, (Tumor, Abscess, Embolism, Thrombosis, Hæmorrhage and other gross lesions)	5	3	8	82	54	136
Functional Nervous Diseases, (Paralysis Agitans, Chorea, Eclampsia, Hysteria).....	1	.....	1	28	10	38
Epilepsy	5	2	7	112	72	184
Mental Diseases:—						
Exhaustion of Acute Mental Disease.....	.....	.....	.....	77	62	139
Exhaustion of Chronic Mental Disease).....	.....	.....	.....	60	56	116
General Paresis.....	13	1	14	114	15	129
Intoxications:—						
Alcoholism	.....	.....	.....	.....	.....	.....
Morphinism	.....	.....	.....	.....	.....	.....
Metallic Poisoning.....	.....	.....	.....	.....	.....	.....
Heat Stroke	1	.....	1	1	.....	1
Debility of Old Age	4	10	14	180	170	350
Accident	.....	1	1	7	7	14
Suicide.....	.....	1	1	10	9	19
Surgical Diseases.....	.....	.....	.....	2	4	6
Gynæcological Diseases.....	.....	.....	.....	.....	.....	.....
Malignant New Growths, or Cancer	2	1	3	14	30	44
Totals	51	42	93	1,156	986	2,141

TABLE No. 10—LONDON.

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses:—									
(a) Fever Delirium	....	....	.....	....	....	....	....	...	....
(b) Infection Delirium	....	....	.....	....	....	....	....	....	....
(c) Post Infection Psychoses	....	....	.....	....	....	....	....	....	....
Exhaustion Psychoses:—									
(a) Collapsed Delirium	....	....	.....	....	....	....	....	....	....
(b) Acute Confusional Psychoses	1	5	6	1	5	6	....	1	1
(c) Neurasthenia	....	....	.....	....	....	....	....	....	....
Intoxication Psychoses:—									
(a) Acute Intoxications	....	....	.....	....	....	....	....	....	....
(b) Chronic "	....	1	1	....	1	1	....	....	....
(a) Alcoholism (acute and chronic)	1	....	1	....	....	....	1	....	1
(b) Delirium Tremens	....	....	.....	....	....	....	....	....	....
(c) Korsakow's Psychoses	....	....	.....	....	....	....	....	....	....
(d) Acute Alcoholic Hallucinosis	....	....	.....	....	....	....	....	....	....
(e) Alcoholic Hallucinatory Dementia	....	....	....	....	....	....	....	....	....
(f) " Paronia	1	....	1	....	....	....	....	....	....
(g) " Paresis	....	....	.....	....	....	....	....	....	...
(h) Morphinism	1	....	1	....	....	....	....	....	....
(i) Cocainism	....	....	.....	....	...	....	....	....	....
Thyroigenous Psychoses:—									
(a) Mixœdematous Psychoses	....	....	.....	....	....	....	....	....	....
(b) Cretinism	....	....	....	....	....	....	....	....	....
Dementia Præcox:—									
(a) Hebaphrenic	22	12	34	11	7	18	5	5	10
(b) Catatonic	10	23	33	7	16	23	3	1	4
(c) Paranoid	17	13	30	12	4	16	6	7	13
General Paresis	5	2	7	....	....	....	13	1	14
Organic Dementias:—									
(a) Cerebral Sclerosis	1	....	1	....	1	1	....	....	....
(b) Huntingdon's Chorea	....	2	2	....	....	....	1	1	2
(c) Multiple Sclerosis	....	....	.....	....	....	....	....	....	....
(d) Cerebral Syphilis	1	....	1	....	....	....	....	....	....
(e) Tabetic Psychoses	....	....	.....	....	....	....	....	....	....
(f) Arterio Sclerotic Psychoses	1	....	1	....	....	....	....	....	....
(g) Cerebral Tumor, Abscess, Hæmorrhage	....	....	.....	....	....	....	....	....	....
Involution Psychoses:—									
(a) Melancholia	13	20	33	7	16	23	3	8	11
(b) Pre-senile Delusional Psychoses	3	8	11	3	5	8	3	4	7
(c) Senile Dementia	5	6	11	1	....	1	8	11	19
Manic Depressive Psychoses:—									
(a) Manic States	4	5	9	3	1	4	1	....	1
(b) Depressed States	2	1	3	3	....	3	....	1	1
(c) Mixed States	....	....	.....	....	....	....	1	....	1
Carried Forward	88	98	186	48	56	104	45	40	85

TABLE No. 10—LONDON—*Continued.*

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	88	98	186	48	56	104	45	40	85
Paranoia	....	....	....	....	....	....	....	....	....
Psychoses from Constitutional Neuroses:—									
(a) Epileptic Psychoses	6	2	8	....	....	....	5	2	7
(b) Hysterical Psychoses	....	....	....	....	....	....	....	....	....
(c) Sexualis Psychopathia	1	....	1	....	....	....	....	....	....
States of Deficient Mental Development:—									
(a) Imbecility	4	5	9	2	....	2	1	1	2
(b) Idiocy	....	1	1	....	....	....	....	....	....
Not Diagnosed	1	....	1	....	....	....	....	....	....
Not Insane	1	....	1	1	....	1	....	....	....
Totals	101	106	207	51	56	107	51	43	94

TABLE No. 11—LONDON.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct 31st, 1912.	Periods of treatment of those who were discharged recovered during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treatment of those who died during the year.
Under 1 month	37	17	1	.....	1	5
From 1 to 2 months	26	13	4	2	1	4
" 2 " 3 "	17	8	1	1	1	1
" 3 " 4 "	16	14	11	1	.....	2
" 4 " 5 "	14	16	7	2	.....	3
" 5 " 6 "	15	8	3	3	1	4
" 6 " 9 "	13	29	15	7	1	5
" 9 " 12 "	11	35	7	4	.....	3
" 12 " 18 "	9	36	1	6	.....	4
" 18 months to 2 years	10	40	.....	3	1	6
" 2 to 3 years	11	58	4	6	2	5
" 3 " 4 "	8	46	.....	2	.....	4
" 4 " 5 "	10	53	.....	2	.....	3
" 5 " 10 "	7	238	1	2	.....	13
" 10 " 15 "	2	136	.....	1	.....	6
" 15 " 20 "	.....	116	1	.....	.....	5
" 20 years and upwards	1	223	.....	.....	.....	20
Totals	207	1,086	56	42	8	93

HOSPITAL FOR INSANE, MIMICO.

ANNUAL REPORT OF MEDICAL SUPERINTENDENT FOR THE YEAR ENDING OCTOBER 31ST, 1912.

To EDWIN R. ROGERS, ESQ.,

Inspector of Hospitals for Insane,

Toronto, Ont.

SIRS,—In accordance with the requirements of the Statute I have the honor to enclose herewith the Eighteenth Annual Report of this hospital for the year ending October 31st, 1912:

— — —	Male.	Female.	Total.	Male.	Female.	Total.
There were in residence on October 31st, 1911	.....	.....	.....	320	295	615
Admitted during the year by Warrant...	49	14	63			
Admitted during the year by Certificate .	34	52	86			
Total admitted during the year				83	66	149
Total number under treatment during year				403	361	764
Discharged during the year recovered....	25	16	41			
Discharged during the year improved....	7	8	15			
Discharged during the year unimproved .	1	.....	1			
Discharged during the year not insane....	.....	.....	.....			
Total discharged during the year	33	24	57			
Number died during the year.....	42	18	60			
Number eloped during the year	3	.....	3			
Number transferred during the year	11	7	18			
Total number leaving the hospital during year.....	.....	.....	.....	90	50	140
Total number remaining in Hospital on October 31st, 1912.....	.....	.....	.....	313	311	624

ADMISSIONS.

There were one hundred and forty-nine patients admitted during the past year, sixty-three by warrant and sixty-six by medical certificates. Of this number eighty-three were men and sixty-six were women. Of the men forty-four were single and thirty-nine had been married; seven of these had lost their wives. Of the women twenty-one were single and forty-five had been married; ten of those having lost their husbands. Among the men an hereditary tendency could be traced in twenty-seven cases, and among the women it was found to exist in twenty-five cases, amounting in all to about 35 per cent. of the total admissions. Among the chief causes were loss of friends, business troubles, mental strain, worry, privation and over-work. Of the forty-two cases accounted for on the foregoing grounds twenty-three were men and nineteen were women. Of the total number admitted forty were reported to have been ill for a period less than two months prior to admission; while sixty-six had already entered the chronic list, having been ill for more than a year before admission to the hospital for treatment.

Discharges.

Fifty-seven patients were discharged during the past year, thirty-three men and twenty-four women. In addition to these, two were deported, three were "written off" the books as eloped and eighteen were transferred to other hospitals, making in all eighty patients who left the Institution in this way. Of those who were discharged, thirty-four had been under treatment less than one year. Sixty-six patients were allowed to go home to their friends during the year for a probational residence, thirty-three men and thirty-three women. Of this number seventeen men and fifteen women were ultimately discharged.

Deaths.

During the year sixty patients died at the hospital; sixteen of them from exhaustion during the first two months of their residence. Of the total number of deaths forty-two were men and eighteen were women. In reference to the age attained by those who died, it may be mentioned that nine were between 50 and 60 years of age, seventeen between 60 and 70 years, eight between 70 and 80 years, and one woman was 85, and one 91 years of age.

Kitchen Floor.

For many years the kitchen floor has been in an unsightly and unsanitary state on account of the constant moisture from the steam pots and from daily scrubbing. The daily alterations between the conditions of partial saturation and partial dryness of the floor surface, attended by the offensive emanations from heat evaporation from those surfaces, proved rapidly destructive to the flooring, which had frequently to be repaired, but finally the joists themselves decayed and the floor was becoming unsafe. The only radical remedy was to replace the old wooden joists with steel beams and place upon them a cement floor with a tile surface which was ultimately completed during the past month, and now for the first time the kitchen is provided with a good floor which will be sanitary, durable and presentable in appearance.

Extension of Coal Vaults.

Last year the extension of the coal vaults on the south side of the driveway was carried forward as far as possible, and during the year just ended the extension has been completed on the north side. The completion of this northern section of the coal vault has also permitted the completion of the driveway over the two new sections, and the construction of a cement floor on steel beams in the fire station, which is situated above and adjacent to the driveway. This addition to the storage capacity for coal was very much needed, and the work which has been accomplished in this connection has successfully prepared the way for the installation of a system of coal carriers for unloading coal and for the provision and completion of the hose tower above the present fire hall. The sooner the present place, which has been used temporarily (nearly twenty years) as a root cellar, but which was originally built as part of the coal vaults system, can be restored to its originally designed use the better it will be, not only for the coal annually exposed, but also for the roots which are not as well cared for as they would be in a properly constructed root house.

Main Building and Cottages, Mimico.

Fire Hall.

Since the opening of this Institution there has been no established fire hall at this place, and the hose reels and other fire equipment have been changed about with the varying seasons to suit the exigencies of coal and carriage storage. During the past summer, after the driveway to the new coal vaults was completed, a cement floor on steel beams was placed in the room immediately above the passage to the old coal vaults, and this centrally located space will in future serve admirably as a fire hall. A very important advantage which this hall presents is that it admits of the easy construction of a hose tower from the middle of its roof, and if this can be accomplished this year two of the most imperative wants in the fire protection system will have been completed.

Wiring in Cottages "C" and "D."

The Engineer has succeeded during the past year in completing the wiring of cottages "C" and "D," in addition to the other work in his department. These were the last two of the ten cottages in which the rewiring was necessary, and the Engineer will next proceed with the work of rewiring the Administration Building and Centre Building as soon as possible.

Local Telephone.

For many years the inconvenience of having no telephone service between the Farm Cottage and the Administration Building was the subject of consideration, but until the past year, when a rural system was inaugurated in the community, the cost of installation was out of proportion to its utility. Now, however, the rural system has made it possible to establish telephone communication between the Administration Building and the Farmer's and Gardener's house, as well as the Farm Cottage, and each of these departments will be materially benefitted by it.

Laboratory.

Until the past year there has been no place properly fitted up for the pursuit of laboratory work at this hospital but by making alterations in a basement room immediately below the General Office, a convenient, well-lighted and satisfactory provision has been made for this purpose.

Automatic Fire Signal System.

Lately there has been established in Cottages "5" and "E" an automatic fire signal system which appears to answer the requirements satisfactorily. There are sixteen Thermostats in Cottage "5" and sixteen in Cottage "E." and these are directly connected with the station in the cottage at which place an alarm is sounded in the event of a rise of temperature to one hundred and forty degrees at any one of these Thermostats. The alarm is also simultaneously registered at the pumping station and this register indicates the cottage at which the alarm is first sounded. In this way if the temperature at any one of the Thermostats is raised to one hundred and forty degrees the automatic signal gives the alarm to all the residents of the cottage and the register at the boiler house notifies the fireman on duty there, so that a general alarm may be sounded and the fire pump may be

started; this system will be carefully tested during the coming months and if future tests should prove as satisfactory as those of the past the desirability of extending the system to the other cottages and buildings would be without question.

New Pumping Station.

The Public Works Department represented by Mr. Hogarth has had direct supervision over several important works at this place during the past year, and among them have been the erection of a new pumping station for the accommodation of a new electrical pump. The work of excavating, and the building of the house itself was undertaken by the Institution staff of artisans and it has been carried out successfully. The building 12 ft. x 14 ft. rests on a cement foundation and is constructed of brick with a cement floor and a slate roof. It is located by the side of the old pump house in which the old steam power pumps will be allowed to remain to be used in case of any interruption in the supply of electrical energy or any other emergency.

New Electrical Pump.

A new one hundred horse power electrical pump with a pumping capacity of 800 imperial gallons per minute properly equipped with meters, cut out switches and lightning arresters has been installed in the new pumping station, and it has been connected with the well at the pumping station on one hand and with the new main water pipe supplying the reservoir at the centre building, and the new fire hydrant system on the other. When the hydro-electric power, which is expected to reach this place in a few weeks, is turned on this pump the constant supply of water, both for daily use and for the fire purposes, should be everything that could be desired.

New Fire Hydrant System.

Perhaps the heaviest undertaking of the past year was the work of digging trenches for and laying a 10 inch water main from the lake to the quadrangle which surrounds the whole cottage system. Three thousand four hundred and ninety four feet of trenches averaging a little over 5 ft. in depth and sometimes with obstructions of shale and rock represents an amount of labor, which can only be understood by one familiar with excavations of that kind, and the laying and calking of a heavy 10 inch pipe at the bottom of these trenches with eleven tees for extension pipes into each cottage, and the installation of eleven new hydrants means an amount of engineering work which only a courageous servant would undertake with a small staff of assistants in addition to his ordinary official work. Now that this work has been accomplished it will be possible in the future to use a system of fire hydrants, conveniently placed in front of the cottages so that in the event of a fire the men handling the hose may be in direct communication with the men at any given hydrant, which was an impossibility with the old hydrant system, which was located behind the subways and beyond the reach of the men handling the hose nozzles. The new system is linked up with the old system and the new main is connected with the whole water supply and fire hydrant system, and this section of the service here is now in a much more efficient condition than at any other period in the history of the Institution.

Main Building and Cottages, Mimico (from the North).

Typhoid Fever.

From a special report embracing the number of cases of Typhoid at this Hospital during the past five years it may be seen that during the year just closed there were five recorded cases, but there were only four well defined while the fifth case was somewhat doubtful although the evidence had a strong leaning in that direction. From the same report it will be seen that there were no cases whatever in 1908 and only one case in 1909, while 1910 gave a record of seven cases and 1911 a record of thirteen cases, and this record is extremely interesting when it is remembered that the conditions of living at the Hospital, as far as the sanitary conditions are concerned, have scarcely varied during this period of five years. In the earlier years of the history of this hospital there were occasional epidemics of typhoid fever directly traceable to the breakage of the intake pipe and the supply of contaminated water through the broken pipe from a point within a few hundred feet of the shore line. After this pipe was buried however in a trench in the rock and covered with cement no more breakages have occurred in its course, and the water supply for Institution uses has come from the outer end of the intake pipe two thousand feet distant from the shore line, and it was supposed when this work was undertaken that the water so supplied would be free from typhoid bacilli.

Frequent examinations of samples of this lake water have, however, revealed the fact that at times the impurities in the water even when brought in from that distant point are so great as to prohibit its use for domestic purposes, and as there is no index to indicate the periods of variation in the impurity of the water except the examination of the water itself, it became necessary to make arrangements for a daily supply of drinking water to every cottage from one of the wells at the hospital here, so that there should be no danger from possible contamination in the water supplied to the patients.

The discontinuance in the use of lake water for drinking purposes was not however attended by entire absence of typhoid, and it was then thought that the cause of the few recurring cases might have been due to colonies of bacilli still living and multiplying in protected sections of the water supply pipes, which are so numerous and so widely distributed to all the buildings of the hospital, and in order to overcome this possible source of danger the engineer emptied the pipes of the water and filled them with steam for the purpose of effectually sterilizing them and annihilating any possible remaining colonies of bacilli sheltered by the pipes. Even after this measure there was not an entire disappearance of typhoid cases, and while some cases amongst the employees were directly and unquestionably traceable to infection outside of the hospital entirely while such employees were off duty, there still remained a small number of recurring cases among patients who were constant residents in the hospital and who were in no way exposed to outside sources of contagion. With a supply of pure water and with no outside communication it has been somewhat puzzling to determine how these patients acquired the poison necessary to produce typhoid, and not until the past few years has this problem became so pressing that attention has been more especially directed to other sources of infection. Among these two of the most probable are rats and flies, and renewed crusades have been made against these enemies. Rats are apparently as much at home when coming in contact with putrid and contaminated food supplies, and in the presence of emanations of disease and organic disintegrations as when they are surrounded by sunshine and sanitary conditions, and it has been found that they carry upon their feet and bodies and tails, from their resorts

of filth and disease, the bacilli necessary for infection to the tables and dishes and food supplies in the pantries from which later on patients receive their own food. Of course the habits of flies are not of any higher standard from a sanitary point of view than those of rats, and as they have greater access to the food supplies even after they are served on the tables the dangers of infection from them are at least equal to and possibly greater than from rats.

When this hospital was originally constructed the stables were placed at the rear of and at one side of the quadrangle, but later on two other cottages were constructed which brought the site of the stables immediately between these two cottages and the stables themselves, have been in past years, no doubt, a breeding ground for flies which so easily found homes in the cottages and carried with them at all times the germs of disease. While the stables have not yet been removed the manure has been carried away during the past few years and this source of the generation of these pests has been very considerably limited. In addition to attacking the conditions which favored the breeding of flies this year each cottage was supplied with fly bats, and the supervisors organized fly extermination parties with the splendid result that very few flies were able to have any foot hold for any extended time in any of the cottages, and there certainly seemed to be less source of danger from these carriers of disease during the past summer than at any previous time. It is needless to say that the greatest attention will be continued in the matter of purity of the water supply and the extermination of pests which have been proved carriers of disease, and the greatest vigilance will be at all times exercised in order, if possible, to discover any additional causes of this much dreaded disease.

Changes Among Employees.

During the past year there were a larger number of changes among the employees than during any similar period in the history of the Institution. One hundred and fifty-one new names were entered in the employees' register, one hundred and four of these being men and forty-seven being women. Of course these new employees were only engaged to replace those who had discontinued their services for one reason or another, and the duty of giving instructions to so many employees newly entering upon the service was very great for the medical officers and chief attendants. Although the greatest care is exercised at all times when selecting men and women for the service it turns out that several men have to be dismissed every year on account of intemperate habits, and there seems to have been a larger proportion dismissed during the past year than usual on that account.

Changes in Official Staff.

Early in the year on January 5th, Doctor McCarley, who had given splendid official service since Nov. 1st, 1911, was transferred to the Rockwood Hospital at Kingston and Doctor Marshall who had been at the Hamilton Hospital was appointed to the vacancy at this place. A little later Doctor Wickware who was an excellent officer resigned his position to undertake private practice and he was succeeded by the appointment of Doctor Leary on June 24th.

South Cottages, Mimico. (Women's Side.)

The storekeeper, Mr. F. N. Wallis, who had held that position since Sept. 1st, 1893, finding the confinement attending office work detrimental to his health resigned his position after many years of faithful and efficient service, and he was succeeded by Mr. Robert Elkin who had been steward and chief male attendant since the opening of our hospital. Mr. Elkin's duties as chief male attendant were assumed by Mr. Thomas Wrangham, the senior supervisor, on March 1st and he has continued to discharge these duties satisfactorily. The chief female attendant and trained nurse, Mrs. Robertson, resigned her position on October 1st, after three and one half years of devoted service and at the time of writing her position has not yet been filled. These frequent and necessary changes amongst the chief officials of the hospital serve to place increased responsibility upon the remaining officials during the long period which must elapse before the new officers become familiar with many of the details of the official life, but I am bound to say that the devotion and loyalty which has steadily been manifested by every member of the official staff has served to secure the greatest efficiency in the work of the Hospital.

I have the honour to be,

Sirs,

Your obedient servant,

N. H. Beemer.

ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR INSANE MIMICO, FOR THE YEAR ENDING 31st OCTOBER,

TABLE No. 1—MIMICO.

Showing movements of patients in the Hospital for the official year ending 31st October, 1912.

	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	310	310	620			
In Residence 31st October, 1911	.....	.....	.....	320	295	615
Admitted during year 1911-12:—						
By Warrant	49	14	63			
By Medical Certificate	34	52	86	83	66	149
Total number under treatment during year	.....	.....	.....	403	361	764
Discharges during year:—						
As recovered	25	16	41			
" improved	7	8	15			
" unimproved	1	.....	1			
" not insane	.....	.....	.....			
Total number discharged during year	33	24	57			
Died	42	18	60			
Deported	1	1	2			
Eloped	3	.....	3			
Transferred	11	7	18	90	50	140
Remaining in Hospital 31st October, 1912	.....	.....	.....	313	311	624
Total number admitted since opening of Hospital	.....	.....	.....	1,506	1,430	2,936
Total number discharged since opening of Hospital	458	444	902			
Total number died since opening of Hospital	429	384	813			
Total number deported since opening of Hospital	35	5	40			
Total number eloped since opening of Hospital	35	1	36			
Total number transferred since opening of Hospital	236	285	521	1,193	1,119	2,312
Total remaining in Hospital 31st October, 1912	.....	.....	.....	313	311	624
Daily average population	314.71	303.10	617.81			
Collective days' stay of all patients in residence during year	115,186	110,940	226,126			
Number of applications on fyle	34	21	55			

Overlooking Lake Ontario and Wharf, Mimico.

TABLE No. 2—MIMICO.

Showing social state and religion of patients admitted during the year and since opening of Hospital.

	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
SOCIAL STATE.						
Single	44	21	65	936	570	1,506
Married	32	35	67	551	827	1,378
Widowed	7	9	16	19	32	51
Divorced	.....	1	1	.....	1	1
Separated	.....	.....	.....	.....	.....	.....
Unascertained	.....	.....	.....	.....	.....	.....
Totals	83	66	149	1,506	1,430	2,936
RELIGION.						
Baptists	2	7	9	47	69	116
Congregationalists	.....	.....	.....	3	7	10
Church of England	25	12	37	301	309	610
Methodists	16	17	33	356	375	731
Presbyterians	20	12	32	294	275	569
Roman Catholics	12	11	23	347	294	641
Other Denominations	7	7	14	103	59	162
Unascertained	1	.....	1	55	42	97
Totals	83	66	149	1,506	1,430	2,936

TABLE No. 3—MIMICO.

Showing nativity of patients admitted during the year and since opening of Hospital.

Nativity.	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Total admissions	83	66	149	1,506	1,430	2,936
Total born in Canada	52	49	101	993	964	1,957
Armenia						
Assyria						
Austria	2		2	8		8
Australia	1		1	1		1
Belgium						
Bulgaria						
Central America						
China						
Denmark				1		1
England	17	8	25	182	147	329
France				4	1	5
Finland	2	1	3	13	5	18
Galacia						
Germany	1		1	17	7	24
Greece						
Holland						
Hungary					1	1
Ireland	3	2	5	146	180	326
Italy				10	1	11
Japan						
Macedonia				1		1
Other British Possessions				1	5	6
Norway		1	1	6	2	8
Roumania				1		1
Russia		1	1	10	3	13
Scotland	3	3	6	66	69	135
South America						
Spain					1	1
Sweden	1		1	7	7	14
Turkey						
United States	1	1	2	24	26	50
West Indies				2		2
Unascertained				13	11	24
Totals	83	66	149	1,506	1,430	2,936

TABLE No. 4—MIMICO.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

Occupation.	Admitted this Year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Professional :— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc	3	.....	3	60	7	67
Commercial :— Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc	7	.....	7	124	15	139
Agricultural and Pastoral :— Farmers, Gardeners, Stock Men, etc.	32	.....	32	429	.....	429
Mechanics at Outdoor Vocations :— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc	6	.....	6	146	2	148
Mechanics, etc., at Sedentary Vocations ; Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc	5	3	8	96	48	144
Domestic Service :— Waiters, Cooks, Servants, etc	1	5	6	8	202	210
Education and Higher Domestic Duties : Governesses, Teachers, Students, Housekeepers, Nurses, etc	1	49	50	20	960	980
Miners, Marine Engineers, Railway Employees, Seamen, etc	4	.....	4	33	.....	33
Laborers	18	.....	18	477	1	478
No Occupation	6	9	15	55	149	204
Unascertained	.....	.....	.....	58	46	104
Totals	83	66	149	1,506	1,430	2,936

TABLE No. 5—MIMICO.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospital.

Counties and Districts.	Admitted during year.			Admitted since opening.			Warrant cases.						Remaining in residence.		
							Admitted during year.			Admitted since opening.					
	Male.	Female.	Total	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District ..	6	3	9	44	51	95	6	1	7	34	24	58	12	17	29
Brant	....	....	....	7	5	12	....	....	....	3	1	4	1	1	2
Bruce	....	....	....	3	3	6	....	....	....	2	1	3	....	....	....
Carleton	....	....	....	10	11	21	....	....	....	8	6	14	....	....	....
Dufferin	....	....	....	5	3	8	....	....	....	1	1	2	2	1	3
Dundas	....	....	....	3	5	8	....	....	....	2	3	5	....	....	....
Durham ..	....	....	....	12	18	30	....	....	....	6	8	14	3	3	6
Elgin	....	....	....	6	.....	6	....	....	....	4	....	4	1	...	1
Essex	....	....	....	5	2	7	....	....	....	.....	1	1	...	1	1
Frontenac	....	....	....	11	17	28	....	....	....	4	7	11	2	...	2
Glengarry	....	....	....	2	2	4	....	....	....	1	....	1	....	....	....
Grenville	....	....	....	4	6	10	....	....	....	2	3	5	....	....	....
Grey	....	2	2	19	16	35	....	....	....	12	7	19	2	7	9
Haldimand	....	....	....	1	1	2	....	....	....	.....	.....	.....	1	1	2
Haliburton	....	1	1	3	2	5	....	....	....	1	1	2	1	1	2
Halton	....	....	....	6	10	16	....	....	....	1	2	3	...	3	3
Hastings	....	....	....	23	33	56	....	....	....	15	25	40	1	2	3
Huron	....	....	....	5	6	11	....	....	....	1	1	2	1	...	1
Kent	....	....	....	4	.....	4	....	....	....	4	....	4	2	...	2
Lambton	....	....	....	5	5	10	....	....	....	4	3	7	1	1	2
Lanark	....	....	....	9	8	17	....	....	....	7	6	13	....	....	....
Leeds	....	....	....	1	3	4	....	....	....	1	2	3	....	....	....
Lennox and Addington	....	....	....	4	5	9	....	....	....	3	5	8	....	....	....
Lincoln	....	....	....	1	1	2	....	....	....	.....	.....	.....	1	...	1
Manitoulin	1	....	1	13	6	19	....	....	....	7	3	10	2	3	5
Middlesex	....	....	....	16	6	22	....	....	....	8	1	9	2	...	2
Muskoka District .	1	2	3	46	35	81	1	....	1	24	11	35	6	6	12
Nipissing District.	12	6	18	100	42	142	11	2	13	73	20	93	27	15	42
Norfolk	....	....	....	3	4	7	....	....	....	2	1	3	....	....	....
Northumberland ..	....	....	....	26	24	50	....	....	....	13	9	22	7	1	8
Ontario	11	6	17	109	135	244	7	....	7	56	34	90	23	31	54
Oxford	....	....	....	9	2	11	....	....	....	7	2	9	3	...	3
Parry Sound District	6	3	9	46	28	74	4	....	4	31	15	46	9	11	20
Peel	3	5	8	73	73	146	....	....	....	31	23	54	16	17	33
Perth	....	....	....	9	2	11	....	....	....	4	....	4	3	...	3
Peterborough	4	7	11	95	128	223	2	3	5	56	36	92	26	35	61
Prescott	....	....	....	4	3	7	....	....	....	4	3	7	....	....	....
Prince Edward	....	....	....	2	6	8	....	....	....	2	2	4	...	1	1
Rainy River District	3	2	5	27	17	44	3	2	5	23	14	37	5	8	13
Renfrew	....	....	....	4	5	9	....	....	....	4	3	7	....	....	....
Russell	....	....	....	3	1	4	....	....	....	3	....	3	....	....	....
Simcoe	12	11	26	201	177	378	6	2	8	74	35	109	47	28	75
Stormont	....	....	....	1	2	3	....	....	....	.....	1	1	....	....	....
Thunder Bay District	6	3	9	52	22	74	3	2	5	47	19	66	12	7	19
Victoria	8	3	11	116	112	228	6	....	6	78	31	109	28	32	60
Waterloo	....	....	....	5	2	7	....	....	....	3	1	4	1	...	1
Welland	....	....	....	2	2	4	....	....	....	2	2	4	1	...	1
Wellington	1	....	1	3	3	6	....	....	....	.....	1	1	1	...	1
Wentworth	....	....	....	.....	8	8	....	....	....	.....	3	3	....	....	....
York	9	9	18	339	369	708	....	2	2	182	166	348	62	78	140
Unascertained	....	....	....	9	3	12	....	....	....	2	3	5	1	...	1
Totals	83	66	149	1,506	1,430	2,936	49	14	63	852	546	1,398	313	311	624

TABLE No. 6—MIMICO.

Showing the assigned causes of insanity in the cases admitted during year.

Causes.	Men.	Women	Total.	Inherited Predisposition.			Un-ascertained.
				Men.	Women.	Total.	
MORAL.							
Adverse Conditions (such as loss of friends, business troubles, etc)	9	5	14	3	1	4	10
Mental Strain, Worry and Overwork (not included in above)	.....	6	6	.....	2	2	4
Religious Excitement	.....	.....	.....	.....	.....	.....	.....
Love Affairs, including seduction	.....	1	1	.....	.....	.....	1
Fright and Nervous Shock	.....	1	1	.....	.....	.....	1
PHYSICAL.							
Alcoholism	5	.....	5	4	.....	4	1
Sexual Excess	.....	.....	.....	.....	.....	.....	.....
Venereal Diseases	7	.....	7	.....	.....	.....	7
Masturbation	3	.....	3	2	.....	2	1
Insolation	2	1	3	.....	1	1	2
Accident or Injury	5	1	6	2	1	3	3
Pregnancy	.....	6	6	.....	3	3	3
Parturition and Puerperium	.....	4	4	.....	1	1	3
Lactation	.....	2	2	.....	.....	.....	2
Climacteric Period	.....	7	7	.....	4	4	3
Fevers	1	1	2	1	.....	1	1
Privation and Overwork	14	8	22	4	4	8	14
Epilepsy	3	1	4	2	.....	2	2
Other Convulsive Diseases	.....	.....	.....	.....	.....	.....	.....
Diseases of Brain and Skull	.....	.....	.....	.....	.....	.....	.....
Senility	10	7	17	1	1	2	15
Exophthalmic Goitre	.....	.....	.....	.....	.....	.....	.....
Epidemic Influenza	.....	.....	.....	.....	.....	.....	.....
Abuse of Drugs	1	1	2	.....	.....	.....	2
Loss of Special Sense	.....	.....	.....	.....	.....	.....	.....
Uraemia	.....	.....	.....	.....	.....	.....	.....
Other Auto-infection	.....	.....	.....	.....	.....	.....	.....
Other Bodily Diseases	2	.....	2	1	.....	1	1
HEREDITARY.							
Congenital Defect	11	8	19	3	5	8	11
Unascertained	10	6	16	4	2	6	10
Not Insane	.....	.....	.....	.....	.....	.....	.....
Totals	83	66	149	27	25	52	97

TABLE No. 7—MIMICO.

Showing hereditary tendency to insanity in patients admitted during the year.

—	Admitted during year.		
	Male.	Female	Total.
Paternal Branch	6	6	12
Maternal Branch	12	6	18
Paternal and Maternal Branches	4	3	7
Collateral Branches	5	10	15
No Hereditary Tendency	22	20	42
Unascertained	34	31	55
Totals	83	66	149

TABLE No. 8—MIMICO.

Showing summary of Probational Discharges during the year.

—	Male.	Female.	Total.
Number granted probational discharge	33	33	66
Discharged recovered while on probation	16	12	28
" Improved " "	1	3	4
" Unimproved " "	.....	.....	.....
Died " "	2	.....	2
Returned to Hospital " "	6	9	15
Absent on probation on 31st October, 1912	8	9	17

TABLE No. 9—MIMICO.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Specific Infectious Diseases —						
Typhoid Fever	.....	1	1	5	5	10
Influenza	.....	.....	.....	.....	2	2
Cerebro-spinal Meningitis	.....	.....	.....	.....	.....	.....
Diphtheria	.....	.....	.....	.....	.....	.....
Erysipelas	.....	.....	.....	2	2	4
Septicæmia	.....	.....	.....	4	3	7
Dysentery	.....	.....	.....	8	18	26
Syphilis	1	.....	1	1	.....	1
Tuberculosis	2	1	3	50	72	122
Constitutional Diseases :—						
Rheumatism	1	.....	1	2	.....	2
Arthritis Deformans	.....	.....	.....	.....	.....	.....
Diabetes Mellitus	.....	.....	.....	3	4	7
Diseases of the Digestive System :—						
Mouth, salivary glands	.....	.....	.....	.....	.....	.....
Pharynx	.....	.....	.....	.....	.....	.....
Tonsils	.....	.....	.....	.....	.....	.....
Œsophagus	.....	.....	.....	.....	.....	.....
Diseases of the Intestines :—						
Diseases of the Liver	.....	.....	.....	2	1	3
Diseases of the Pancreas	.....	.....	.....	1	1	2
Diseases of the Peritoneum	1	1	2	7	7	14
Diseases of the Respiratory System :—						
Diseases of the Nose and Larynx	.....	.....	.....	1	.....	1
Diseases of the Bronchi	.....	.....	.....	1	2	3
Diseases of the Lungs	7	6	13	24	22	46
Diseases of the Pleura	.....	.....	.....	1	.....	1
Diseases of the Circulatory System :—						
Diseases of the Pericardium	.....	.....	.....	1	.....	1
Diseases of the Heart	4	3	7	34	38	72
Arterio-sclerosis	.....	.....	.....	1	3	4
Aneurism	.....	.....	.....	.....	1	1
Diseases of the Blood and Ductless Glands :—						
Anæmia	.....	.....	.....	6	7	13
Pernicious Anæmia	1	.....	1	3	.....	3
Leukæmia	1	.....	1	1	.....	1
Exophthalmic Goitre	.....	.....	.....	.....	1	1
Diseases of the Genito-Urinary System	2	.....	2	2	1	3
Carried Forward	20	12	32	160	190	350

TABLE No. 9—MIMICO—*Continued.*

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	20	12	32	160	190	350
Diseases of the Nervous System :—						
Diseases of the Nerves						
Diseases of the Spinal Cord	2	1	3	5	2	7
Diseases of the Meninges						
Organic Diseases of the Brain, (Tumor, Abscess, Embolism, Thromboids, Hæmorrhage, and other gross lesions)	5	2	7	36	25	61
Functional Nervous Diseases, (Paralysis Agitans, Chorea, Eclampsia, Hysteria)				4	2	6
Epilepsy	3		3	59	12	71
Mental Diseases :—						
Exhaustion of Acute Mental Disease	2	1	3	36	29	65
Exhaustion of Chronic Mental Disease				35	28	63
General Paresis	4		4	29	11	40
Intoxications :—						
Alcoholism						
Morphinism						
Metallic Poisoning						
Heat Stroke						
Debility of Old Age	2	1	3	52	69	121
Accident				2	3	5
Suicide	2		2	4	1	5
Surgical Diseases				1	3	4
Gynæcological Diseases						
Malignant New Growths, or Cancer		1	1	4	9	13
Unknown (died while on probation)	2		2	2		2
Totals	42	18	60	429	384	813

TABLE No. 10—MIMICO.

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses:—									
(a) Fever Delirium									
(b) Infection Delirium									
(c) Post Infection Psychoses		1	1						
Exhaustion Psychoses:—									
(a) Collapsed Delirium									
(b) Acute Confusional Psychoses		1	1		1	1			
(c) Neurasthenia		1	1		1	1			
Intoxication Psychoses:—									
(a) Acute Intoxications									
(b) Chronic "									
(a) Alcoholism (acute and chronic)	2		2	2		2			
(b) Delirium Tremens									
(c) Korsakow's Psychoses									
(d) Acute Alcoholic Hallucinosis				1		1			
(e) Alcoholic Hallucinatory Dementia									
(f) " Paranoia									
(g) " Paresis									
(h) Morphinism					1	1			
(i) Cocainism									
Thyroigenous Psychoses:—									
(a) Mixœdematous Psychoses									
(b) Cretinism									
Dementia Praecox:—									
(a) Hebaphrenic	21	2	23	12	2	14	6		6
(b) Catatonic	1	4	5				2		2
(c) Paranoid	10	7	17	2	2	4	2	1	3
General Paresis	8		8				8		8
Organic Dementias:—									
(a) Cerebral Sclerosis									
(b) Huntingdon's Chorea							1	1	2
(c) Multiple Sclerosis	1		1						
(d) Cerebral Syphilis									
(e) Tabetic Psychoses		1	1						
(f) Arterio Sclerotic Psychoses		1	1						
(g) Cerebral Tumor, Abscess, Hæmorrhage	4		4				1	2	3
Involution Psychoses,—									
(a) Melancholia		3	3	1	2	3	1	1	2
(b) Pre-senile Delusional Psychoses	1	1	2						
(c) Senile Dementia	13	8	21		2	2	7	4	11
Manic Depressive Psychoses:—									
(a) Manic States	13	14	27	10	10	20	3	3	6
(b) Depressed States	3	7	10	1		1	2	3	5
(c) Mixed States	1	2	3	3	2	5	4	2	6
Carried Forward	78	53	131	32	23	55	37	17	54

TABLE No. 10—MIMICO—*Continued.*

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	78	53	131	32	23	55	37	17	54
Paranoia	....	4	4	....	....	....	....	....	....
Psychoses from Constitutional Neuroses :—									
(a) Epileptic Psychoses	3	3	6	....	....	....	4	...	4
(b) Hysterical Psychoses	....	2	2	....	....	....	....	....	....
(c) Sexualis Psychopathia	....	....	....	....	....	....	....	....	....
States of Deficient Mental Development :—									
(a) Imbecility	2	2	4	1	1	2	1	....	1
(b) Idiocy	....	....	....	....	....	....	....	....	..
Not Diagnosed	....	2	2	....	....	....	....	....	....
Not Insane	....	....	....	....	....	....	....	1	1
Totals	83	66	149	33	24	57	42	18	60

TABLE No. 11—MIMICO.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1912.	Periods of treatment of those who were discharged recovered during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treatment of those who died during the year.
Under 1 month	27	12	.....	.....	.....	8
From 1 to 2 months	13	6	.....	.....	1	8
" 2 " 3 "	12	14	.....	.....	.....	1
" 3 " 4 "	9	11	1	.....	.....	1
" 4 " 5 "	5	14	3	.....	.....	4
" 5 " 6 "	5	6	5	2	.....	1
" 6 " 9 "	5	24	9	.....	.....	7
" 9 " 12 "	7	21	10	3	.....	4
" 12 " 18 "	6	38	3	1	.....	3
" 18 months to 2 years.	8	22	1	3	.....	.....
" 2 to 3 years	14	49	2	5	.....	3
" 3 " 4 "	11	42	3	.....	.....	2
" 4 " 5 "	9	31	.....	.....	.....	2
" 5 " 10 "	5	134	4	1	.....	5
" 10 " 15 "	1	68	.....	.....	.....	2
" 15 " 20 "	2	64	.....	.....	.....	3
" 20 years and upwards	5	68	.....	.....	.....	6
Unknown	5	.....	.....	.....	.....	.....
Totals	149	624	41	15	1	60

HOSPITAL FOR THE INSANE, PENETANGUISHENE.

ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT FOR THE YEAR ENDING OCTOBER 31ST, 1912.

To EDWIN W. ROGERS, ESQ.,

Inspector of Hospitals for the Insane,

Parliament Buildings, Toronto.

SIR,—In accordance with the Statutory requirements, I have the honour to submit the Ninth Annual Statistical Report of the Hospital for Insane, Penetanguishene, for the year ending October 31st, 1912.

POPULATION.

At the opening of the year there were 163 males and 204 females in residence. During the year we had fourteen deaths, four from tuberculosis, four from cardiac disease, two from senile changes and one from each of the following diseases: cerebral hæmorrhage, septicæmia, chronic bright's disease and epilepsy. The average age of those who died was 61.2 years, the oldest being 85 and the youngest 18. We had twenty-two admissions, all transfers from Toronto and Mimico, and returned three patients to Toronto and one to Mimico. One patient eloped and one was discharged unimproved, leaving in residence at the end of the year 164 males and 204 females, and one male patient on probation. The transfers were of a more useful class than were formerly sent, but there is still room for improvement and if the contemplated increase of acreage for farm purposes is carried into effect we will require a much more able class of transfers to enable us to keep up with the work, without materially adding to our per capita cost.

WORK DONE.

All artisans and employees were kept busy throughout the season. Numerous repairs and improvements were made to the employee's cottages. The painter did papering and painting in all of them and the exterior of four cottages was painted. The old stone cottage was fitted up and is now occupied by two families. The eave troughing which was destroyed by ice in the winter was replaced, where required, on all buildings. The mason had a busy season and did good work in laying the cement foundation for our rink, cement foundation for verandah, changing course of sewer and laying four hundred feet of pipe, putting cement floor in messenger's stable and in part of farm stable, and in doing many small repairs about the place. The carpenters were kept busy building a hen house which will accommodate four hundred chickens and in erecting a rink for skating and curling, besides the many necessary repairs to buildings and furniture. The engineer and staff were kept busy looking after the plant and making changes in the heating system. Wires were strung to the gate and the grounds are now well lighted. The electric wiring throughout the Institution was thoroughly gone over and extensions were made to the water service. The Baker has performed the dual duties of baker and butcher with entire satisfaction, though greatly handicapped by an inefficient cold storage. The Farmer and Gardener have

garnered more this year than last as it has been an exceptionally good year for roots. It is a question for the Farm Director to decide, whether the work put on the land is justified by the results. I have again to recommend that a good farm be purchased in the vicinity of the Institution to supply our needs. There were several changes among our employees occasioned by the lure of the West and better salaries paid elsewhere. It is becoming difficult to get good employees and salaries must be increased, proportionately as the cost of living has increased, if we are to get and keep help worth having.

Wharf and Coal.

Temporary repairs were made to coal dock, occasioned by the fire which occurred during the winter when all the coal had to be moved and turned over in the face of blinding snow and a temperature considerably below zero.

The coal was again a source of trouble and anxiety in October as our winter supply took fire and had to be all turned over and removed from the wharf, the sides and ends of which were almost completely destroyed. The dock was altogether too small for the amount of coal put on it and as the class of coal sent here, when exposed to the weather is most liable to ignite from spontaneous combustion, we are face to face with the necessity of either enlarging, and making a cement fire proof wharf, or cementing the present wharf and supplying the Institution with a better class of coal. Opinions differ as to which is the better and cheaper coal to use, but there is no question but that with the present system of firing a very considerable portion of the slack coal goes up the chimney unconsumed.

Heat and Light.

The per capita cost of heat and light at this Institution is comparatively low, and the per capita cost of salaries of engineers and assistants is relatively high. Both might be materially lowered if the electric light plant was moved from below the hill to a room adjoining the power plant at main building. Such a move would do away with the necessity of employing a special man to look after the electric light plant. It would lessen the amount of coal required by the amount now consumed at the electric plant, as power has to be kept up at the main building all the time, and it would do away with the upkeep of two boilers and the necessity of maintaining a booster and storage battery. With an additional dynamo, power could be generated at very little additional cost to run our laundry machinery, bake shop and carpenter shop, and the exhaust steam could be used for heating purposes. Should the Hydro-Electric be put in, it will be necessary to keep up our plant for emergencies and in any case the proper place for the plant is at the main building.

Wants.

Our requirements are not many but some are most pressing. It has been pointed out to the Fire Inspector that in event of fire all that we can hope to do is to remove the patients, as our supply of water is altogether inadequate for fire purposes. I trust that before another year passes, a second reservoir will be built higher up on the hill and that fire escapes from amusement hall will be erected.

I have again to recommend the installation of a local telephone system. The necessity for same would be self evident if you were to spend a winter here.

Main Building, Penetanguishene.

The question of irrigation is being taken up by the Farm Director. You are aware that our crops depend very much on the season, a wet one being productive of good crops and a dry one of almost nothing. With an irrigation system, we would be enabled to have abundant crops every year. The greenhouse is too small for our requirements and I trust an addition will be built.

I would again dwell on the necessity of having a qualified landscape architect lay out the grounds, so that the work of improvement can follow a set plan.

The slating of the main building will require repairs.

The cold storage must be rebuilt as at present it is almost useless and spoils instead of keeping supplies.

Repairs must be made to the foundation of the Assistant Superintendent's house and we hope to have improvements made to farm stables, so that the old stable may be moved. The old buildings between laundry and cottage should be removed and further accommodation be made for patients.

Sewerage.

At present our sewage is run directly into the Bay, helping to pollute the waters and becoming a total loss to the institution. It occurs to me, and I have so recommended, that our sewage might be advantageously used on the land. In any case, to comply with the regulations of the Provincial Board of Health, it will be necessary to put in a septic tank system and allow only treated material to run into the Bay.

Church Services.

Our thanks are due to the Clergy of Penetanguishene, who have faithfully and cheerfully given their services. They have their reward in the appreciation shown by the patients but I trust it is only a matter of a short time before they are fittingly remunerated for duties performed.

Staff.

There has been but one change on the official staff. Miss Jones, who had given more than twenty years of efficient service in the different institutions of the Province, passed to her long reward in April. Her fortitude and cheerfulness under great pain and hopeless illness were only what was expected by those who knew the strength and sweetness of her nature. Much sympathy went out to her and she is greatly missed by all who knew her here and throughout the service.

Miss Habart who had been acting Chief was appointed Matron and Miss Gilbert, senior nurse, has been acting chief attendant, and does the work of matron efficiently in Miss Habart's absence.

In concluding I have to thank you for the kind consideration and advice you have so cheerfully given and for the interest you have at all times shown in the welfare of the Institution.

I have the honour to be,

Sir,

Your obedient servant,

W. T. Wilson.
Medical Superintendent.

ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR THE INSANE, PENETANGUISHENE, FOR THE YEAR ENDING OCTOBER 31ST, 1912.

TABLE No. 1—PENETANGUISHENE.

Showing movements of patients in the Hospital for the official year ending October 31st, 1912.

	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	166	204	370			
In residence, October 31st, 1911				163	204	367
Admitted during year 1912:—						
By Warrant	8	1	9			
By Medical Certificate	2	11	13	10	12	22
Total number under treatment during year				173	216	389
Discharges during year:—						
As recovered						
" improved		1	1			
" unimproved						
" not insane						
Total number discharged during year		1	1			
Died	6	8	14			
Deported						
Eloped	1		1			
Transferred	1	3	4	8	12	20
Remaining in Hospital, October 31st, 1912				165	204	369
Total number admitted since opening of Hospital				252	303	555
Total number discharged since opening of Hospital	17	22	29			
Total number died since opening of Hospital	47	66	113			
Total number deported since opening of Hospital	8		8			
Total number eloped since opening of Hospital	7		7			
Total number transferred since opening of Hospital	8	11	19	87	99	186
Total remaining in Hospital, October 31st, 1912				165	204	369
Daily average population	164.8	196.6	361.4			
Collective days' stay of all patients in residence during year	60,148	71,783	131,931			
Number of applications on fyle						

Main Building and Employees' Cottages from the Bay, Penetanguishene.

TABLE No. 2—PENETANGUISHENE.

Showing social state and religion of patients admitted during the year and since opening of Hospital.

	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
SOCIAL STATE.						
Single	10	6	16	183	153	336
Married	.....	6	6	62	143	205
Widowed	.....	.....	.....	.....	.....	.....
Divorced	.....	.....	.....	.....	.....	.....
Separated	.....	.....	.....	.....	.....	.....
Unascertained	.....	.....	.....	7	7	14
Totals	10	12	22	252	303	555
RELIGION.						
Baptists	.....	2	2	10	11	21
Congregationalists	.....	.....	.....	.....	.....	.....
Church of England	1	4	5	51	74	125
Methodists	2	2	4	48	60	108
Presbyterians	2	2	4	36	47	83
Roman Catholics	5	1	6	58	75	133
Other Denominations	.....	1	1	25	21	46
Unascertained	.....	.....	.....	24	15	39
Totals	10	12	22	252	303	555

TABLE No. 3—PENETANGUISHENE.

Showing nativity of patients admitted during the year and since opening of Hospital.

Nativity.	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Total Admissions	10	12	22	252	303	555
Total born in Canada	6	8	14	141	185	326
Armenia				1		1
Assyria				2		2
Austria						
Australia						
Belgium						
Bulgaria						
Central America						
China						
Denmark		1	1		1	1
England	1	2	3	40	29	69
France	1		1	1		1
Finland				3	1	4
Galicia						
Germany				4	5	9
Greece				1		1
Holland						
Hungary						
Ireland	1	1	2	19	43	62
Italy	1		1	4	1	5
Japan						
Macedonia				1		1
Other British Possessions						
Norway				1		1
Roumania						
Russia				3	2	5
Scotland				9	15	24
South America						
Spain						
Sweden				1	1	2
Turkey						
United States				6	6	12
West Indies						
Unascertained				15	14	29
Total	10	12	22	252	303	555

Men's Cottage, Penetanguishene.

TABLE No. 4—PENETANGUISHENE

Showing the occupation of those admitted during the year and since the opening of the Hospital.

Occupation.	Admitted this Year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Professional :— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers Surveyors, etc.	.....	.....	.....	3	.....	3
Commercial :— Bankers, Merchants, Accountants, Clerks, Salesmen Stenographers, Typewriters, etc.	.....	.....	.....	3	.....	3
Agricultural and Pastoral :— Farmers, Gardeners, Stockmen, etc.	1	.....	1	60	.....	60
Mechanics at Outdoor Vocations ;— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc.	.....	.....	.....	19	.....	19
Mechanics, etc., at Sedentary Vocations :— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers. Factory Workers, etc.	.....	1	1	8	10	18
Domestic Service :— Waiters, Cooks, Servants, etc.	.....	5	5	.....	99	99
Education and Higher Domestic Duties :— Governesses, Teachers, Students, Housekeepers, Nurses, etc.	2	6	8	6	120	126
Miners, Marine Engineers, Railway Employees, Seamen, etc.	.....	.....	.....	.....	.....	.....
Laborers	7	.....	7	112	.....	112
No Occupation	.....	.....	.....	16	45	61
Unascertained	.....	.....	.....	25	29	54
Totals	10	12	22	252	303	555

TABLE No. 5—PENETANGUISHENE.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospital.

Counties and Districts.	Admitted during year.			Admitted since opening.			Warrant cases.						Remaining in residence.		
							Admitted during year.			Admitted since opening.					
	Male.	Female.	Total	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District	1	....	1	15	5	20	1	....	1	9	2	11	12	5	17
Brant	....	....	....	....	1	1	....	....	....	....	....	....	....	1	1
Bruce	....	....	....	1	5	6	....	....	....	1	3	4	1	4	5
Carleton	....	....	....	1	3	4	....	....	....	1	1	2	1	2	3
Dufferin	....	....	....	....	1	1	....	....	....	....	....	....	....	1	1
Dundas	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Durham	....	....	....	1	1	2	....	....	....	....	....	....	1	....	1
Elgin	....	....	....	1	4	5	....	....	....	1	3	4	1	4	5
Essex	....	....	....	....	2	2	....	....	....	....	2	2	....	2	2
Frontenac	....	....	....	....	4	4	....	....	....	1	2	3	....	4	4
Glengarry	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grenville	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grey	....	....	....	14	4	18	....	....	....	11	3	14	9	3	12
Haldimand	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Halton	....	....	....	1	....	1	....	....	....	....	....	....	1	....	1
Hastings	....	....	....	....	6	6	....	....	....	....	6	6	....	3	3
Huron	....	....	....	2	3	5	....	....	....	1	....	1	2	3	5
Kent	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lambton	....	....	....	1	3	4	....	....	....	1	1	2	....	2	2
Lanark	....	....	....	....	1	1	....	....	....	....	....	....	....	1	1
Leeds	....	....	....	1	1	2	....	....	....	....	1	1	1	1	2
Lennox and Addington	....	....	....	1	6	7	....	....	....	....	5	5	....	4	4
Lincoln	....	....	....	2	2	4	....	....	....	2	2	4	1	1	2
Middlesex	....	....	....	5	8	13	....	....	....	4	4	8	2	4	6
Muskoka District	1	....	1	11	9	20	....	....	....	8	7	15	9	5	14
Nipissing District	1	1	2	7	3	10	1	....	1	8	1	9	2	3	5
Norfolk	....	....	....	....	3	3	....	....	....	....	....	....	....	2	2
Northumberland	....	....	....	5	9	14	....	....	....	2	3	5	3	7	10
Ontario	....	....	....	15	12	27	....	....	....	14	6	20	13	10	23
Oxford	....	....	....	2	2	4	....	....	....	2	1	3	2	1	3
Parry Sound District	....	....	....	4	1	5	....	....	....	4	....	4	1	....	1
Peel	....	....	....	1	2	3	....	....	....	....	1	1	1	2	3
Perth	....	....	....	1	3	4	....	....	....	1	2	3	....	2	2
Peterborough	1	....	1	5	2	7	1	....	1	5	2	7	5	1	6
Prescott	....	....	....	2	1	3	....	....	....	1	....	1	2	....	2
Prince Edward	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Rainy River District	2	....	2	6	3	9	2	....	2	6	3	9	3	3	6
Renfrew	....	....	....	1	3	4	....	....	....	2	1	3	....	3	3
Russell	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Simcoe	2	3	5	63	81	144	1	....	1	25	28	53	28	45	73
Stormont	....	....	....	....	1	1	....	....	....	....	1	1	....	1	1
Thunder Bay District	....	....	....	2	1	3	....	....	....	2	1	3	1	1	2
Victoria	....	....	....	7	7	14	....	....	....	6	6	12	4	5	9
Waterloo	....	....	....	2	....	2	....	....	....	2	....	2	....	1	1
Welland	....	....	....	....	2	2	....	....	....	1	....	1	....	1	1
Wellington	....	....	....	3	3	6	....	....	....	1	....	1	3	3	6
Wentworth	....	....	....	6	2	8	....	....	....	2	2	4	5	2	7
York	2	8	10	48	83	131	2	1	3	39	46	85	40	58	98
Unascertained	....	....	....	15	10	25	....	....	....	17	9	26	11	3	14
Totals	10	12	22	252	303	555	8	1	9	180	155	335	165	204	369

TABLE No. 6—PENETANGUISHENE.

Showing the assigned causes of insanity in the cases admitted during year.

Causes.	Total Admissions.			Inherited Predisposition.			Unascertained.
	Men.	Women.	Total.	Men.	Women.	Total.	
Moral.							
Adverse Conditions (such as loss of friends, business troubles, etc.)							
Mental Strain, Worry and Overwork (not included in above)	1	1	2				
Religious Excitement		1	1				
Love Affairs, including seduction		1	1				
Fright and Nervous Shock		2	2				
Physical.							
Alcoholism	1	1	2	1		1	
Sexual Excess	1		1				
Venereal Diseases							
Masturbation							
Insolation							
Accident or Injury							
Pregnancy							
Parturition and Puerperium		2	2		2	2	
Lactation							
Climacteric Period		1	1				
Fevers							
Privation and Overwork							
Epilepsy							
Other Convulsive Diseases							
Diseases of Brain and Skull							
Senility							
Exophthalmic Goitre							
Epidemic Influenza							
Abuse of Drugs							
Loss of Special Sense							
Uræmia							
Other Auto-infection		1	1				
Other Bodily Diseases		2	2				
Hereditary.							
Congenital Defect	4		4	4		4	
Unascertained	3		3				15
Not Insane							
Totals	10	12	22	5	2	7	15

TABLE No. 7—PENETANGUISHENE.

Showing hereditary tendency to insanity in patients admitted during the year and since the opening of the Hospital.

——	Admitted During Year.			Since Opening.		
	Male.	Female.	Total	Male.	Female.	Total.
Paternal Branch	3	4	7	21	31	52
Maternal Branch	1	.....	1	15	23	38
Paternal and Maternal Branches	.....	1	1	5	7	12
Collateral Branches	1	2	3	18	20	38
No Hereditary Tendency	3	3	6	78	80	158
Unascertained	2	2	4	115	142	257
Totals	10	12	22	252	303	555

TABLE No. 8—PENETANGUISHENE.

Showing summary of Probational Discharges during the year.

——	Male.	Female.	Total.
Number Granted Probational Discharge	1	2	3
Discharged, Recovered, while on Probation	.....	.....	.....
" Improved, " "	.....	1	1
" Unimproved, " "	.....	.....	.....
Died while on Probation	.....	.....	.....
Returned to Hospital	.....	1	1
Absent on Probation on October 31st, 1912	1	.....	1

TABLE No. 9—PENETANGUISHENE

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Specific Infectious Diseases:—						
Typhoid Fever				1		1
Influenza						
Cerebro-spinal Meningitis						
Diphtheria						
Erysipelas				1	2	3
Septicæmia		1	1		1	1
Dysentery					2	2
Syphilis						
Tuberculosis	1	3	4	5	7	12
Constitutional Diseases:—						
Rheumatism						
Arthritis Deformans						
Diabetes Mellitus				1		1
Diseases of the Digestive System:—						
Mouth, salivary glands						
Pharynx						
Tonsils						
Œsophagus						
Diseases of the Intestines:—						
Diseases of the Liver				1		1
" " Pancreas						
" " Peritoneum					1	1
Diseases of the Respiratory System:—						
Diseases of the Nose and Larynx						
" " Bronchi					2	2
" " Lungs				1	1	2
" " Pleura				1		1
Diseases of the Circulatory System:—						
Diseases of the Pericardium						
" " Heart	2	2	4	10	12	22
Arterio-sclerosis						
Aneurism						
Diseases of the Blood and Ductless Glands:—						
Anæmia					1	1
Pernicious Anæmia				1	1	2
Leukæmia						
Exophthalmic Goitre						
Diseases of the Genito-Urinary System	1		1	3		3
Carried Forward	4	6	10	25	30	55

TABLE No. 9—PENETANGUISHENE—*Continued.*

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	4	6	10	25	30	55
Diseases of the Nervous System:—						
Diseases of the Nerves						
" " Spinal Cord						
" " Meninges				1		1
Organic Diseases of the Brain, (Tumor, Abscess, Embolism, Thrombosis, Hæmorrhage, and other gross lesions)		1	1	4	8	12
Functional Nervous Diseases, (Paralysis Agitans, Chorea, Eclampsia, Hysteria)						
Epilepsy		1	1		3	3
Mental Diseases:—						
Exhaustion of Acute Mental Disease				1	2	3
Exhaustion of Chronic Mental Disease						
General Paresis				4	4	8
Intoxications:—						
Alcoholism						
Morphinism				1		1
Metallic Poisoning						
Heat Stroke						
Debility of Old Age	2		2	10	13	23
Accident					1	1
Suicide				1		1
Surgical Diseases					2	2
Gynæcological Diseases						
Malignant New Growths, or Cancer					3	3
Totals	6	8	14	47	66	113

TABLE No. 10—PENETANGUISHENE.

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses:—									
(a) Fever Delirium									
(b) Infection Delirium									
(c) Post Infection Psychoses									
Exhaustion Psychoses:—									
(a) Collapsed Delirium									
(b) Acute Confusional Psychoses					1	1			
(c) Neurasthenia									
Intoxication Psychoses:—									
(a) Acute Intoxications									
(b) Chronic "									
(a) Alcoholism (acute and chronic)		1	1						
(b) Delirium Tremens									
(c) Korsakow's Psychoses									
(d) Acute Alcoholic Hallucinosis									
(e) Alcoholic Hallucinatory Dementia									
(f) " Paranoia									
(g) " Paresis									
(h) Morphinism									
(i) Cocainism									
Thyroigenous Psychoses:—									
(a) Mixœdematous Psychoses									
(b) Cretinism									
Dementia Præcox:—									
(a) Hebaphrenic	5	3	8				2	1	3
(b) Catatonic	1	1	2					1	1
(c) Paranoid	1	3	4						
General Paresis									
Organic Dementias:—									
(a) Cerebral Sclerosis									
(b) Huntingdon's Chorea									
(c) Multiple Sclerosis									
(d) Cerebral Syphilis									
(e) Tabetic Psychoses									
(f) Arterio-sclerotic Psychoses									
(g) Cerebral Tumor, Abscess, Hæmorrhage							1		1
Involution Psychoses:—									
(a) Melancholia									
(b) Pre-senile Delusional Psychoses		1	1						
(c) Senile Dementia								2	2
Manic Depressive Psychoses:—									
(a) Manic States	1		1				1		1
(b) Depressed States		1	1					1	1
(c) Mixed States	1	1	2				1		1
Carried Forward	9	11	20		1	1	5	5	10

TABLE No. 10—PENETANGUISHENE—*Continued.*

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	9	11	20	....	1	1	5	5	10
Paranoia	....	....	....	....	....	....	....	....	....
Psychoses from Constitutional Neuroses:—									
(a) Epileptic Psychoses	....	....	....	....	....	....	....	2	2
(b) Hysterical Psychoses	....	....	....	....	....	....	....	....	....
(c) Sexualis Psychopathia	....	....	....	....	....	....	....	....	....
States of Deficient Mental Development:—									
(a) Imbecility	1	....	1	....	....	....	....	....	....
(b) Idiocy	....	....	....	....	....	....	....	....	....
Not Diagnosed	....	1	1	....	....	....	1	1	2
Not Insane	....	....	....	....	....	....	....	....	....
Total	10	12	22	....	1	1	6	8	14

TABLE No. 11—PENETANGUISHENE.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1912.	Periods of treatment of those who were discharged recovered during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treatment of those who died during the year.
Under 1 month	.....	.....	.....	.....	.....	.....
From 1 to 2 months	.....	5	.....	.....	.....	.....
" 2 " 3 "	.....	.....	.....	.....	.....	.....
" 3 " 4 "	.....	1	.....	.....	.....	.....
" 4 " 5 "	1	1	.....	.....	.....	.....
" 5 " 6 "	.....	8	.....	.....	.....	.....
" 6 " 9 "	1	5	.....	.....	.....	.....
" 9 " 12 "	4	11	.....	.....	.....	.....
" 12 " 18 "	1	1	.....	1	.....	.....
" 18 months to 2 years	1	25	.....	.....	.....	.....
" 2 to 3 years	1	44	.....	.....	.....	1
" 3 " 4 "	2	35	.....	.....	.....	1
" 4 " 5 "	2	30	.....	.....	.....	.....
" 5 " 10 "	2	38	.....	.....	.....	2
" 10 " 15 "	2	71	.....	.....	.....	1
" 15 " 20 "	1	51	.....	.....	.....	.....
" 20 years and upwards	4	43	.....	.....	.....	9
Totals	22	369	.....	1	.....	14

Entrance to Grounds, Hospital for Insane, Toronto.

HOSPITAL FOR THE INSANE, TORONTO.

October 31st, 1912.

To E. R. Rogers, Esq.,

Inspector of Hospitals for Insane, etc., Province of Ontario.

Sir,—In accordance with your request I have the honour to submit the Seventy-second Report of this Hospital for the twelve months ending October 31st, 1912.

——	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	426	426	852			
In Residence October 31st, 1911	.....	.....	.....	440	466	906
Admitted during year 1912:						
By Warrant	80	29	109	.....	.....	.....
By Medical Certificate	98	121	219	178	150	328
Total number under treatment during year	.....	.....	.....	618	616	1,234
Discharges during year:—						
As recovered	34	43	77			
" improved	32	34	66			
" unimproved	5	3	8			
" not insane	.....	2	2			
Total number discharged during year	71	82	153			
Died	48	26	74			
Deported	24	7	31			
Eloped	1	3	4			
Transferred	1	19	20	145	137	282
Remaining in Hospital Oct. 31st, 1912	.....	.....	.....	473	479	952

As pointed out in the report of last year the demand on this hospital for accommodation continues to grow, and this year there have been 328 admissions (178 men, 150 women). Of this number 109 were received upon the warrant process from the Toronto Gaol. Close attention has been given all the applicants referred to the gaol for mental examination, and wherever urgency for treatment has been called for, admission has been granted as speedily as possible.

Site for New Hospital at Whitby.

The beautiful site selected and purchased by the Ontario Provincial Government, in Whitby, is particularly desirable from many standpoints. The 640 acres lie in a block bordering on Lake Ontario, and also on Whitby Harbour. Not only is this important from the outlook which it affords, but also from the unlimited supply of water for all institutional purposes furnished at our door by the former, and another means of transportation by the latter. As the site is close to the town of Whitby it will give the staff of the hospital an opportunity for social intercourse

with the towns-people. This is an important consideration, and it is hoped that it will enable us to retain the services of the attendants and nurses for a greater length of time.

The G.T.R. station is at the north-east corner of the site, from which a siding has been laid into the grounds as far as the industrial department. Both the C.P.R. and C.N.R. are expected to shortly pass through the town, and a suburban electric railway is under construction to Whitby.

The soil is very well adapted both for agricultural and horticultural development.

Farm Camp.

On the 29th of April, 1912, the institution carpenter, with a party of seven patients, undertook the erection of a cottage for thirty patients; temporary quarters being obtained in the cottages on the grounds. They succeeded very well with this, and thirty patients are now comfortably housed there and are engaged on the farm.

A lot of eight acres was set aside for garden purposes in order that they might grow the vegetables necessary for our hospital. The gardener, with his party of workers from among the patients, took charge of this, and has been shipping from time to time fresh vegetables for our use. A supply for the winter has also been stored.

The herd of milch cows were taken from the stables here and placed on the farm. The milk for the hospital has been shipped daily here.

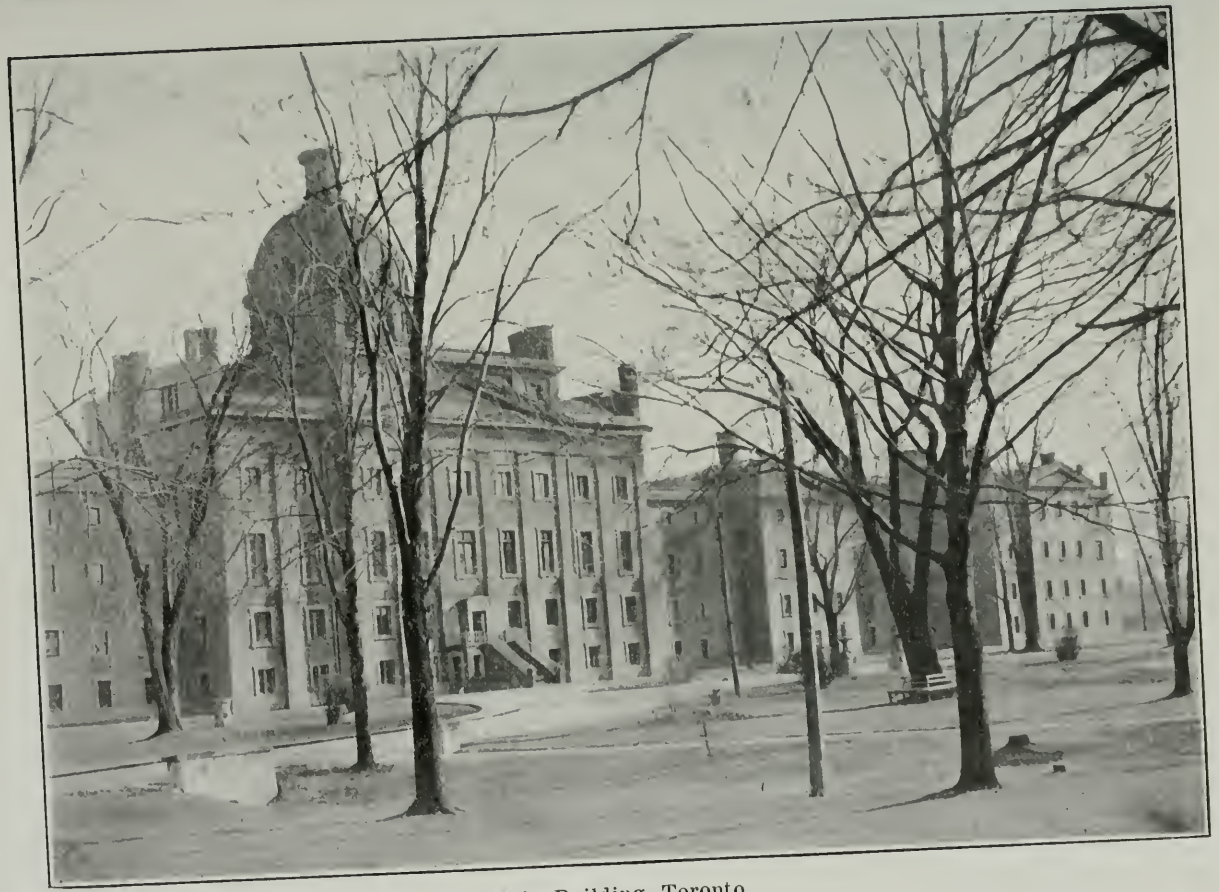
The life of this colony of patients has been very agreeable; they enjoy the open air, and many expressions of appreciation are heard from them. The selection of these patients for the colony has been made from the convalescent class, and others who have been engaged in the industrial department in the Toronto Hospital. A large percentage of these have further improved and have resumed again useful occupations outside.

Training School for Nurses.

The work of the Training School has been carried on with keen interest by the physicians and the Head Nurse of this staff. The nurses in training have been quite studious, and all passed their examinations creditably. The appreciation of its graduates has grown so that at different times I have been asked to make recommendations for positions of responsibility and trust in the nursing profession.

Nurses on Men's Wards.

So many changes among the attendants on the men's admission ward made it difficult to carry out the proper medical treatment of these acute cases, and for this reason a radical change was made in this department. The male supervisor having resigned on June 1st, Mrs. Brock, one of the Ontario Hospital graduates, with wide experience, was appointed in his place, and she took her three nurses from the Training School. The nursing of these acute cases has been directed and controlled by her. The most gratifying results have followed, and the patients appreciate it very much.



Main Building, Toronto.

In this move there has been no desire to under-estimate the services of the attendants who have laboured in the hospital's interests for years, but the commercial attractions are so enticing that it is impossible to retain the services of those suitable for this work sufficiently long to get the best results.

The Ontario Bulletin.

The medical work carried on at the various hospitals is so well indicated and expressed in the Bulletin that extensive reference to this in the Annual Report is uncalled for. The Bulletin is so widely read now that it forms a splendid means for the education of the general practitioner in the work done in the hospitals. Many references reach us which should be of the greatest encouragement to the management.

The following contributions were made by the members of our staff:

Voluntary Admissions ..... J. M. Forster, M.D.
Forced Feeding ..... F. S. Vrooman, M.B.
Aneurysms and General Paresis .....C. S. McVicar, M.B.
Laboratory Tests ..... C. S. McVicar, M.B.
Laboratory Tests..G. Strathy, M.B., & Gordon Bates, M.B.

Changes in the Staff.

There have been very few changes in the official staff, and I am deeply indebted to all for the zeal they have manifested in their work.

In conclusion, I wish to express my sincere gratitude to yourself for the kindly interest you have taken in all hospital concerns, and for the prompt help you have always given.

I have the honour to remain,

Sir,

Your obedient servant,

J. M. Forster,

Medical Superintendent.

ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR INSANE, TORONTO, FOR THE YEAR ENDING OCTOBER 31ST, 1912.

TABLE No. 1—TORONTO.

Showing movements of patients in the Hospital for the official year ending October 31st, 1912.

	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	426	426	852			
In Residence October 31st, 1911				440	466	906
Admitted during year 1912:—						
By Warrant	80	29	109			
By Medical Certificate	98	121	219	178	150	328
Total number under treatment during year				618	616	1,234
Discharges during year:—						
As recovered	34	43	77			
" improved	32	34	66			
" unimproved	5	3	8			
" not insane		2	2			
Total number discharged during year	71	82	153			
Died	48	26	74			
Deported	24	7	31			
Eloped	1	3	4			
Transferred	1	19	20	145	137	292
Remaining in Hospital October 31st, 1912				473	479	952
Total number admitted since opening of Hospital				5,879	5,593	11,472
Total number discharged since opening of Hospital	2,919	3,010	5,929			
Total number died since opening of Hospital	1,596	1,291	2,887			
Total number deported since opening of Hospital	77	24	101			
Total number eloped since opening of Hospital	136	19	155			
Total number transferred since opening of Hospital	678	770	1,448	5,406	5,114	10,520
Total remaining in Hospital October 31st, 1912				473	479	952
Daily average population	446	458	904			
Collective day's stay of all patients in residence during year	162,790	167,170	329,960			
Number of applications on fyle	15	22	37			

TABLE No. 2—TORONTO.

Showing social state and religion of patients admitted during the year and since opening of Hospital.

	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
SOCIAL STATE.						
Single	86	52	139	3,126	2,195	5,321
Married	82	72	154	2,704	3,310	6,014
Widowed	10	25	35	44	87	131
Divorced	.....	.....	.....	1	.....	1
Separated	.....	.....	.....	.....	.....	.....
Unascertained	.....	.....	.....	4	1	5
Totals	178	150	328	5,879	5,593	11,472
RELIGION.						
Baptists	4	9	13	151	159	310
Congregationalists	3	1	4	59	84	143
Church of England	55	32	87	1,683	1,546	3,229
Methodists	28	29	57	1,119	1,127	2, 246
Presbyterians	33	31	64	1,243	1,190	2,433
Roman Catholics	21	23	44	1,053	1,015	2,068
Other Denominations	14	15	29	406	379	787
Unascertained	20	10	30	165	93	258
Totals	178	150	328	5,879	5,593	11,472

TABLE No. 3—TORONTO.

Showing nativity of patients admitted during the year and since opening of Hospital.

Nativity.	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Total Admissions	178	150	328	5,879	5,593	11,472
Total born in Canada	86	83	169	2,569	2,574	5,143
Armenia						
Assyria						
Austria	2	1	3	4	2	6
Australia						
Belgium						
Bulgaria	2		2	2		2
Central America						
China				2		2
Denmark				1		1
England	41	34	75	1,116	942	2,058
France				1		1
Finland	1		1	4	2	6
Galicia						
Germany	2	3	5	8	5	13
Greece				2		2
Holland	1		1	1		1
Hungary						
Ireland	12	8	20	1,159	1,176	2,335
Italy	3		3	7		7
Japan						
Macedonia						
Other British Possessions	1		1	3	1	4
Norway					1	1
Roumania	1		1	1	1	2
Russia	3	4	7	14	11	25
Scotland	14	8	22	574	490	1,064
South America				1		1
Spain						
Sweden				1	1	2
Turkey						
United States	5	7	12	193	221	414
West Indies	1	2	3	1	2	3
Unascertained	3		3	215	164	379
Totals	178	150	328	5,879	5,593	11,472

South Cottage, Toronto.

TABLE No. 4—TORONTO.

Showing the occupation of those admitted during the year and since the opening of the Hospital.

Occupation.	Admitted this Year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc.	6	1	7	255	15	270
Commercial:— Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc.	30	4	34	703	66	769
Agricultural and Pastoral:— Farmers, Gardeners, Stock Men, etc.	13	.....	13	1,411	.....	1,411
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc.	39	.....	39	586	1	587
Mechanics, etc., at Sedentary Vocations:— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc.	14	10	24	503	278	781
Domestic Service:— Waiters, Cooks, Servants, etc.	.....	25	25	70	1,301	1,371
Education and Higher Domestic Duties: Governesses, Teachers, Students, Housekeepers, Nurses, etc.	2	96	98	237	2,989	3,226
Miners, Marine Engineers, Railway Employees, Seamen, etc.	6	.....	6	139	2	141
Laborers	56	.....	56	1 431	.....	1,431
No Occupation	5	14	19	218	569	787
Unascertained	7	.....	7	326	372	698
Totals	178	150	328	5,879	5,593	11,472

TABLE No. 5—TORONTO.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospital.

Counties and Districts.	Admitted during year.			Admitted since opening.			Warrant cases.						Remaining in residence.		
							Admitted during year.			Admitted since opening.					
	Male.	Female.	Total	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District	....	....	....	14	17	31	....	....	....	6	1	7	3	3	6
Brant	....	....	....	49	60	109	....	....	....	2	3	5	...	2	2
Bruce	....	1	1	26	15	41	....	....	....	5	....	5	...	2	2
Carleton	....	....	....	81	66	147	....	....	....	12	2	14	2	....	2
Dufferin	....	....	....	8	9	17	....	....	....	3	1	4	2	1	3
Dundas	....	....	....	17	16	33	....	....	....	3	1	4	....	....	....
Durham	....	....	....	173	164	337	....	....	....	34	17	51	6	7	13
Elgin	....	....	....	33	25	58	....	....	....	1	....	1	1	1	2
Essex	....	....	....	18	16	34	....	....	....	3	3	5	1	...	1
Frontenac	....	....	....	104	75	179	....	....	....	23	13	36	1	3	4
Glengarry	....	....	....	30	21	51	....	....	....	4	2	6	2	...	2
Grenville	....	....	....	19	17	36	....	....	....	5	1	6	1	...	1
Grey	....	....	....	119	94	213	....	....	....	58	17	75	4	2	6
Haldimand	....	....	....	26	26	52	....	....	....	5	1	6	....	....	....
Halton	....	....	....	83	66	149	....	....	....	6	2	8	...	4	4
Hastings	....	....	....	116	89	205	....	....	....	53	27	80	3	...	3
Huron	....	....	....	65	60	125	....	....	....	4	1	5	3	3	6
Kent	....	....	....	26	23	49	....	....	....	6	2	8	....	....	....
Lambton	....	....	....	30	24	54	....	....	....	3	2	5	1	1	2
Lanark	....	....	....	51	43	94	....	....	....	10	6	16	....	....	....
Leeds	....	....	....	41	35	76	....	....	....	6	4	10	1	1	2
Lennox and Addington	....	....	....	26	20	46	....	....	....	12	1	13	1	...	1
Lincoln	....	....	....	101	85	186	....	....	....	14	10	24	1	3	4
Middlesex	....	....	....	83	79	162	....	....	....	1	....	1	....	....	....
Muskoka District	....	....	....	20	20	40	....	....	....	3	2	5	...	2	2
Nipissing District	....	....	....	6	5	11	....	....	....	1	2	3	...	1	1
Norfolk	....	....	....	19	21	40	....	....	....	....	....	....	....	....	....
Northumberland	....	1	1	147	140	287	....	....	....	29	11	40	6	4	10
Ontario	....	....	....	196	179	375	....	....	....	65	30	95	7	8	15
Oxford	....	....	....	39	40	79	....	....	....	4	5	9	3	...	3
Parry Sound District	....	....	....	1	3	4	....	....	....	....	....	....	1	1	2
Peel	....	....	....	128	129	257	....	....	....	31	10	41	5	6	11
Perth	....	....	....	50	49	99	....	....	....	7	....	7	....	....	....
Peterborough	....	....	....	102	99	201	....	....	....	44	15	59	7	1	8
Prescott	....	....	....	21	22	43	....	....	....	3	1	4	....	....	....
Prince Edward	....	....	....	26	29	55	....	....	....	3	....	3	...	1	1
Rainy River District	....	....	....	5	4	9	....	....	....	4	2	6	....	....	....
Renfrew	....	....	....	4	11	15	....	....	....	....	....	....	....	1	1
Russell	....	....	....	12	10	22	....	....	....	2	1	3	1	...	1
Simcoe	3	....	3	76	70	146	....	....	....	26	12	38	8	8	16
Stormont	....	....	....	49	35	84	....	....	....	6	3	9	2	...	2
Thunder Bay District	....	....	....	1	3	4	....	....	....	....	....	....	1	1	2
Victoria	....	....	....	143	145	288	....	....	....	52	26	78	4	2	6
Waterloo	....	1	1	53	55	108	....	....	....	10	4	14	3	4	7
Welland	....	....	....	51	50	101	....	....	....	6	4	10	2	2	4
Wellington	....	....	....	151	152	303	....	....	....	14	4	18	4	4	8
Wentworth	....	1	1	237	211	448	....	....	....	39	9	48	5	2	7
York	175	146	321	2,851	2,921	5,772	80	29	109	983	587	1,570	376	397	773
Unascertained	....	....	....	152	44	196	....	....	....	88	14	102	5	...	5
Manitoba	....	....	....	.....	1	.....	....	....	....	....	....	....	...	1	1
Totals	178	150	328	5,879	5,593	11,472	80	29	109	1,698	859	2,517	473	479	952

TABLE No. 6—TORONTO.

Showing the assigned causes of insanity in the cases admitted during year.

Causes.	Total Admissions.			Inherited Predisposition.			Unascertained.
	Men.	Women.	Total.	Men.	Women.	Total.	
Moral.							
Adverse Conditions (such as loss of friends, business troubles, etc.)	2	.....	2	.....	1	1	.....
Mental Strain, Worry and Overwork (not included in above)	20	15	35	8	4	12	.....
Religious Excitement	.....	.....	.....	.....	.....	.....	.....
Love affairs, including seduction	.....	.....	.....	.....	.....	.....	.....
Fright and Nervous Shock	.....	.....	.....	.....	.....	.....	.....
Physical.							
Alcoholism	6	3	9	4	.....	4	.....
Sexual Excess	.....	.....	.....	.....	.....	.....	.....
Venereal Disease	.....	.....	.....	.....	.....	.....	.....
Masturbation	.....	.....	.....	.....	.....	.....	.....
Insolation	.....	.....	.....	.....	.....	.....	.....
Accident or Injury	.....	2	2	.....	1	1	.....
Pregnancy	.....	5	5	.....	3	3	.....
Parturition and Puerperium	.....	3	3	.....	2	2	.....
Lactation	.....	.....	.....	.....	.....	.....	.....
Climacteric Period	.....	1	1	.....	1	1	.....
Fevers	.....	.....	.....	.....	.....	.....	.....
Privation and Overwork	.....	.....	.....	.....	.....	.....	.....
Epilepsy	1	.....	1	.....	.....	.....	.....
Other Convulsive Diseases	.....	.....	.....	.....	.....	.....	.....
Diseases of Brain and Skull	.....	.....	.....	.....	.....	.....	.....
Senility	16	7	23	.....	.....	.....	.....
Exophthalmic Goitre	.....	.....	.....	.....	.....	.....	.....
Epidemic Influenza	.....	.....	.....	.....	.....	.....	.....
Abuse of Drugs	1	.....	1	.....	.....	.....	.....
Loss of Special Sense	.....	.....	.....	.....	.....	.....	.....
Uræmia	.....	.....	.....	.....	.....	.....	.....
Other Auto-infection	.....	.....	.....	.....	.....	.....	.....
Other Bodily Diseases	2	.....	2	.....	.....	.....	.....
Hereditary.							
Congenital Defect	14	18	32	14	17	41	.....
Unascertained	116	94	210	152	119	271	.....
Not Insane	.....	2	2	.....	2	2	.....
Totals	178	150	328	178	150	328	.....

TABLE No. 7—TORONTO.

Showing hereditary tendency to insanity in patients admitted during the year and since the opening of the Hospital.

	Admitted During Year.		
	Male.	Female.	Total.
Paternal Branch	9	10	19
Maternal Branch	9	8	17
Paternal and Maternal Branches	2	2	4
Collateral Branches	3	7	10
No Hereditary Tendency	.....	1	1
Unascertained	155	122	277
Totals	178	150	328

TABLE No. 8—TORONTO.

Showing summary of Probational discharges during the year.

	Male.	Female.	Total.
Number granted probational discharge	60	91	151
Discharged, recovered while on probation	17	37	54
" improved " "	20	27	47
" unimproved " "	1	.....	1
" not insane " "	.....	1	1
Died while on probation	.....	.....	.....
Returned to Hospital	15	15	30
Absent on probation on Oct. 31st, 1912	7	11	18

TABLE No. 9—TORONTO.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Specific Infectious Diseases:—						
Typhoid Fever				1	1	2
Influenza	1		1	2	3	5
Cerebro-spinal Meningitis						
Diphtheria						
Erysipelas					4	4
Septicæmia	1	1	2	2	9	11
Dysentery				5	4	9
Syphilis				1	1	2
Tuberculosis	4	2	6	35	71	106
Toxemia	1		1	1		1
Constitutional Diseases:—						
Rheumatism						
Arthritis Deformans						
Diabetes Mellitus				1	2	3
Diseases of the Digestive System:—						
Stomach					1	1
Mouth, salivary glands						
Pharynx						
Tonsils						
Œsophagus				1		1
Diseases of the Intestines:—						
Diseases of the Liver	1	1	2	7	7	14
Diseases of the Pancreas	1		1	3	1	4
Diseases of the Peritoneum	1		1	3	5	8
Diseases of the Respiratory System:—						
Diseases of the Nose and Larynx						
" " Bronchi				3	5	8
" " Lungs	2	1	3	28	35	63
" " Pleura	1		1	1		1
Diseases of the Circulatory System:—						
Diseases of the Pericardium		2	2		2	2
" " Heart	5	5	10	45	39	84
Arterio-sclerosis	1		1	13		13
Aneurism				1		1
Diseases of the Blood and Ductless Glands:—						
Anæmia				1	1	2
Pernicious Anæmia				3		3
Leukæmia						
Exophthalmic Goitre		1	1		1	1
Diseases of the Genito-Urinary System	1	1	2	11	9	20
Kidney				3		3
Carried Forward	20	14	34	171	201	372

TABLE No. 9—TORONTO—*Continued.*

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	20	14	34	171	201	372
Diseases of the Nervous System:—						
Diseases of the Nerves				2	1	3
" " Spinal Cord	1		1	2	1	3
" " Meninges	1		1	1		1
Organic Diseases of the Brain, (Tumor, Abscess, Embolism, Thrombosis, Hæmorrhage, and other gross lesions)	1		1	17	13	30
Functional Nervous Diseases, (Paralysis Agitans, Chorea, Eclampsia, Hysteria)						
Epilepsy		2	2	20	22	42
Mental Diseases:—						
Exhaustion of Acute Mental Disease	1		1	19	20	39
Exhaustion of Chronic Mental Disease				8	6	14
General Paresis	15		15	129	9	138
Intoxications:—						
Alcoholism				2		2
Morphinism						
Metallic Poisoning	1		1	1		1
Heat Stroke						
Debility of Old Age	8	8	16	52	50	102
Accident				1	2	3
Suicide		1	1	7	4	11
Surgical Diseases						
Gynæcological Diseases						
Malignant New Growths, or Cancer		1	1	5	4	9
Totals	48	26	74	437	333	770

TABLE No. 10—TORONTO.

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Infection Psychoses:—									
(a) Fever Delirium									
(b) Infection Delirium	1	1	2		1	1	1		1
(c) Post Infection Psychoses				1		1		1	1
Exhaustion Psychoses:—									
(a) Collapsed Delirium	4	4	8	2	3	5	1	1	2
(b) Acute Confusional Psychoses									
(c) Neurasthenia	4		4	2		2			
Intoxication Psychoses:—									
(a) Acute Intoxications									
(b) Chronic "									
(a) Alcoholism (acute and chronic)	13	6	19	10	3	13			
(b) Delirium Tremens		1	1		1	1			
(c) Korsakow's Psychoses		1	1		1	1			
(d) Acute Alcoholic Hallucinosis									
(e) Alcoholic Hallucinatory Dementia									
(f) " Paranoia	2	1	3						
(g) " Paresis									
(h) Morphinism	2	2	4	2	2	4			
(i) Cocainism					1	1			
Thyroigenous Psychoses:—									
(a) Mixœdematous Psychoses									
(b) Cretinism									
Dementia Præcox:—									
(a) Hebaphrenic	24	26	50	7	12	19	5	2	7
(b) Catatonic	30	34	64	20	29	49	7	5	12
(c) Paranoid	8	11	19	11	4	15	4	4	8
General Paresis	31	6	37	6	2	8	17	1	18
Organic Dementias:—									
(a) Cerebral Sclerosis									
(b) Huntingdon's Chorea									
(c) Multiple Sclerosis									
(d) Cerebral Syphilis									
(e) Tabetic Psychoses									
(f) Arterio-sclerotic Psychoses	4	2	6	1		1			
(g) Cerebral Tumor, Abscess, Hæmorrhage	3		3	1		1			
Involution Psychoses:—									
(a) Melancholia	4	9	13	3	5	8			
(b) Pre-senile Delusional Psychoses	1	3	4		1	1		1	1
(c) Senile Dementia	12	19	31	4	1	5	10	9	19
Presbyphrenia		1	1						
Manic Depressive Psychoses:—									
(a) Manic States	19	6	25	8	4	12			
(b) Depressed States	6	4	10	7	5	12	1		1
(c) Mixed States		1	1	1	2	3			
Paranoia									
Carried Forward	168	138	306	86	77	163	46	24	70

TABLE No. 10—TORONTO—*Continued.*

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	168	138	306	86	77	163	46	24	70
Psychoses from Constitutional Neuroses —									
(a) Epileptic Psychoses	3	....	3	2	2	4	2	1	3
(b) Hysterical Psychoses	....	2	2	....	2	2	....	....	....
(c) Sexualis Psychopathia	....	....	....	....	....	....	....	....	....
States of Deficient Mental Development:—									
(a) Imbecility	7	8	15	6	6	12	....	1	1
(b) Idiocy	....	....	....	....	....	....	....	....	....
Not Diagnosed	....	....	....	1	....	1	....	....	....
Not Insane	....	2	2	....	2	2	....	....	....
Totals	178	150	328	95	89	*184	48	26	74

*Deportations included, 31.

TABLE No. 11—TORONTO.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct 31st, 1912.	Periods of treatment of those who were discharged recovered during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treatment of those who died during the year.
Under 1 month	68	42	6	12	2	13
From 1 to 2 months	56	17	10	9	.....	2
" 2 " 3 "	40	19	18	11	2	1
" 3 " 4 "	20	17	14	10	.....	3
" 4 " 5 "	8	15	4	6	3	2
" 5 " 6 "	18	17	7	6	1	4
" 6 " 9 "	13	48	8	12	.....	4
" 9 " 12 "	24	28	5	10	.....	6
" 12 " 18 "	16	72	5	10	.....	5
" 18 months to 2 years.	14	23	1	2	.....	7
" 2 to 3 years	15	64	.....	3	.....	6
" 3 " 4 "	4	50	.....	.....	.....	3
" 4 " 5 "	5	59	.....	.....	1	3
" 5 " 10 "	13	187	.....	1	.....	8
" 10 " 15 "	8	98	.....	.....	.....	4
" 15 " 20 "	3	77	.....	1	.....	1
" 20 years and upwards	1	119	.....	1	1	2
Not insane	2	.....	.....	.....	.....	.....
Totals	328	952	* 78	† 94	‡10	74

* Includes 1 deported. † Includes 28 deported. ‡Includes 2 deported.

ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOMEWOOD SANITARIUM, GUELPH, FOR THE YEAR ENDING OCTOBER 31st, 1912.

INSANE BRANCH.

TABLE No. 1.

Showing movements of patients in the Hospital for the official year ending October 31st, 1912.

	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	.....	.....	.....			
In Residence October 31st, 1911	.....	.....	.....	17	29	46
Admitted during year 1912:						
By Warrant	.....	.....	.....	.....	.....	.....
By Medical Certificate	31	29	60	31	29	60
Total number under treatment during year	.....	.....	.....	48	58	106
Discharges during year:						
As recovered	6	5	11			
" improved	10	10	20			
" unimproved	4	3	7			
" not insane	.....	.....	.....			
Total number discharged during year	20	18	38			
Died	8	5	13			
Deported	.....	.....	.....			
Eloped	1	.....	1			
Transferred	6	6	12	35	29	64
Remaining in Hospital October 31st, 1912	.....	.....	.....	13	29	42
Total number admitted since opening of Hospital	.....	.....	.....	394	387	781
Total number discharged since opening of Hospital	287	288	575			
Total number died since opening of Hospital	56	29	85			
Total number deported since opening of Hospital	.....	.....	.....			
Total number eloped since opening of Hospital	3	2	5			
Total number transferred since opening of Hospital	35	39	74	381	358	739
Total remaining in Hospital October 31st, 1912	.....	.....	.....	13	29	42
Daily average population	.....	.....	.....			
Collective days' stay of all patients in residence during year	.....	.....	.....			
Number of applications on fyle	.....	.....	.....			

ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOMEWOOD SANITARIUM, GUELPH, FOR THE YEAR ENDING OCTOBER 31st, 1912.

VOLUNTARY BRANCH.

TABLE No. 1.

Showing movements of patients in the Hospital for the official year ending October 31st, 1912.

	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital						
In Residence October 31st, 1911				34	22	56
Admitted during year 1912:						
By Warrant						
By Medical Certificate	100	41	141	100	41	141
Total number under treatment during year				134	63	197
Discharges during year:						
As recovered	50	13	63			
" improved	33	15	48			
" unimproved	10	7	17			
" not insane						
Total number discharged during year	93	35	128			
Died	3		3			
Deported						
Eloped	4		4			
Transferred	2	2	4	102	37	139
Remaining in Hospital October 31st, 1912				32	26	58
Total number admitted since opening of Hospital				1,205	426	1,631
Total number discharged since opening of Hospital	1,103	375	1,478			
Total number died since opening of Hospital	32	10	42			
Total number deported since opening of Hospital						
Total number eloped since opening of Hospital	24	2	26			
Total number transferred since opening of Hospital	14	13	27	1,173	400	1,573
Total remaining in Hospital Oct. 31st, 1912				32	26	58
Daily average population						
Collective days' stay of all patients in residence during year						
Number of applications on fyle						

PART II.

OF THE

FORTY-FIFTH ANNUAL REPORT

OF THE

Inspectors of Prisons and Public Charities of the Province of Ontario

CONTAINING REPORT ON THE

Hospital for Feeble Minded, Orillia

AND THE

Hospital for Epileptics, Woodstock

BEING FOR THE YEAR ENDING 31st OCTOBER

1912

PRINTED BY ORDER OF

THE LEGISLATIVE ASSEMBLY OF ONTARIO

TORONTO:
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1913.

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29-37 Richmond Street West,
TORONTO

PARLIAMENT BUILDINGS.

TORONTO, January 15th, 1913.

To His Honour SIR JOHN MORISON GIBSON, K.C.M.G., K.C., LL.D., etc.
Lieutenant-Governor of the Province of Ontario.

MAY IT PLEASE YOUR HONOUR:

I beg to submit herewith the Forty-fifth Annual Report upon the Hospitals for the Feeble Minded and Epileptic of Ontario, being for the official year ending 31st October, 1912.

I have the honour to be,

Your Honour's most obedient servant.

W. J. HANNA,

Provincial Secretary.

Office of the

Inspectors of Prisons and Public Charities, Ontario.

Parliament Buildings, Toronto, January 15th, 1913.

Sir,—I have the honour to transmit herewith, to be presented to His Honour the Lieutenant-Governor, the Forty-fifth Annual Report upon the Hospitals for the Feeble Minded and Epileptic of Ontario, being for the official year ending 31st October, 1912.

We have the honour to be, Sir,

Your obedient servant,

Edwin R. Rogers,

Inspector.

The Honourable W. J. Hanna, M.P.P.
Provincial Secretary of the Province of Ontario,
Toronto.

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REPORT OF EDWIN R. ROGERS, INSPECTOR OF PRISONS AND PUBLIC CHARITIES FOR THE YEAR ENDING OCT. 31ST, 1912.

On the 31st Oct., 1912, there were in the Hospitals for Feeble-Minded and Epileptics 1,013 patients divided as follows:

Orillia.			Woodstock.		
Male.	Female.	Total.	Male.	Female.	Total.
415	402	817	103	93	196

being a net increase for the year of six patients.

On the 31st Oct., 1912, there was an over population of 75 and 130 applicants on file awaiting admission.

Revenue.

The amount collected from paying patients for the year ending 31st Oct., 1912, was $22,772.10—from farm and miscellaneous, $2,409.66—Making a total revenue of $25,181.76.

Edwin R. Rogers,
Inspector.

Toronto, May 15, 1913.

TABLE No. 1.

Showing movements of patients in the Hospital for the year ending October 31st, 1912.

	Orillia Hospital.			Woodstock Hospital.			Total.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	362	378	740	104	104	208	466	482	948
In Residence, Oct. 31st, 1911	417	392	809	102	96	198	519	488	1,007
Admitted during year 1912:									
By Warrant	.....	1	1	3	1	4	3	2	5
By Medical Certificate	19	28	47	24	15	39	43	43	86
Total number under treatment during year	436	421	857	129	112	241	565	533	1,098
Discharges during year:									
As recovered	.....	.....	.....	.....	.....	.....	.....	.....	.....
As improved	.....	2	2	9	6	15	9	8	17
As unimproved	1	.....	1	6	2	8	7	2	9
As not insane	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total number discharged during year	1	2	3	15	8	23	16	10	26
Died	17	17	34	11	11	22	28	28	56
Deported	1	.....	1	.....	.....	.....	1	.....	1
Eloped	1	.....	1	.....	.....	.....	1	.....	1
Transferred	1	.....	1	.....	.....	.....	1	.....	1
Total number admitted since opening of Hospital	1,224	1,066	2,290	215	156	371	1,439	1,222	2,661
Total number discharged since opening of Hospital	128	82	210	81	40	121	209	122	331
Total number died since opening of Hospital	634	556	1,190	27	20	47	661	576	1,237
Total number deported since opening of Hospital	2	.....	2	.....	.....	.....	2	.....	2
Total number eloped since opening of Hospital	9	.....	9	.....	.....	.....	9	.....	9
Total number transferred since opening of Hospital	36	26	62	4	3	7	40	29	69
Total remaining in Hospital, October 31st, 1912	415	402	817	103	93	196	518	495	1,013
Number of applications on fyle	.....	.....	124	4	2	6	.....	.....	130
Daily average population	412	400	812	99	95	194	511	495	1,006
Collective days' stay of all patients in residence during year	150,957	146,199	297,156	36,203	34,825	71,028	187,160	181,024	368,184

TABLE No. 2.

Showing social state and religion of patients admitted during the year and since opening of Hospitals.

	Admissions of Year.	Admissions since opening.
SOCIAL STATE.		
Single	80	2,566
Married	11	92
Widowed	.....	1
Divorced	.....	.....
Separated	.....	.....
Unascertained	.....	2
Totals	91	2,661
RELIGION.		
Baptists	4	119
Congregationalists	.....	6
Church of England	20	533
Methodists	27	700
Presbyterians	18	498
Roman Catholics	9	406
Other Denominations	11	155
Unascertained	2	244
Totals	91	2,661

TABLE No. 3.

Showing Nativity of Patients admitted during the year and since opening of Hospitals.

Nativity.	Admissions of Year.			Admissions since Opening.		
	Orillia Hospital.	Woodstock Hospital.	Total.	Orillia Hospital.	Woodstock Hospital.	Total.
Total Admissions	48	43	91	2,290	371	2,661
Total born in Canada	42	32	74	1,886	300	2,186
Armenia						
Assyria						
Austria				5		5
Australia						
Belgium						
Bulgaria						
Central America						
China						
Denmark						
England	6	7	13	131	39	170
France				3		3
Finland						
Galicia						
Germany		1	1	18	3	21
Greece						
Holland						
Hungary						
Ireland		1	1	92	10	102
Italy						
Japan						
Macedonia				5		5
Other British Possessions						
Norway						
Roumania						
Russia				1	1	2
Scotland		1	1	51	9	60
South America						
Spain						
Sweden				5		5
Turkey						
United States				31	9	40
West Indies						
Unascertained		1	1	62		62
Totals	48	43	91	2,290	371	2,661

TABLE No. 4.

Showing the occupation of those admitted during the year and since the opening of the Hospitals.

Occupation.	Admitted this Year.			Since Opening.		
	Orillia Hospital.	Woodstock Hospital.	Total.	Orillia Hospital.	Woodstock Hospital.	Total.
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc.	.....	.....	.....	.....	3	3
Commercial:— Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc.	.....	2	2	3	17	20
Agricultural and Pastoral:— Farmers, Gardeners, Stock Men, etc.	.....	7	7	6	35	41
Mechanics at Outdoor Vacations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc	.....	1	1	2	11	13
Mechanics, etc., at Sedentary Vocations:— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc	.....	2	2	.....	21	21
Domestic Service:— Waiters, Cooks, Servants, etc.	.....	6	6	.....	23	23
Education and Higher Domestic Duties:— Governesses, Teachers, Students, Housekeepers, Nurses, etc.	.....	5	5	1	49	50
Miners, Marine Engineers, Railway Employees, Seamen, etc.	.....	.....	.....	.....	58	58
Laborers	.....	11	11	10	147	157
No Occupation	48	9	57	2,268	7	2,275
Unascertained	.....	.....	.....	.....	.....	.....
Totals	48	43	91	2,290	371	2,661

TABLE No. 5.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospitals.

Counties and Districts.	Admitted during year.			Admitted since opening.			Warrant cases.						Remaining in residence.		
							Admitted during year.			Admitted since opening.					
	Orillia Hospital.	Woodstock Hospital.	Total.	Orillia Hospital.	Woodstock Hospital.	Total.	Orillia Hospital.	Woodstock Hospital.	Total.	Orillia Hospital.	Woodstock Hospital	Total.	Orillia Hospital.	Woodstock Hospital.	Total.
Algoma District	....	....	....	25	2	27	....	....	....	4	2	6	7	2	9
Brant	1	1	2	36	13	49	....	....	....	1	....	1	10	5	15
Bruce	....	2	2	64	6	70	....	....	....	9	....	9	17	4	21
Carleton	1	1	2	73	7	80	....	....	....	11	....	11	25	5	30
Dufferin	3	....	3	18	7	25	....	....	....	2	....	2	6	2	8
Dundas	2	....	2	16	1	17	....	....	....	4	....	4	8	....	8
Durham	....	....	....	37	2	39	....	....	....	....	....	....	10	....	10
Elgin	....	....	....	26	7	33	....	....	....	4	1	5	7	5	12
Essex	2	....	2	52	4	56	....	....	....	5	....	5	20	1	21
Frontenac	1	....	1	85	2	87	....	....	....	27	....	27	27	....	27
Glengarry	....	....	....	17	....	17	....	....	....	4	....	4	6	....	6
Grenville	....	....	....	24	....	24	....	....	....	....	....	....	3	....	3
Grey	....	....	....	84	2	86	....	....	....	18	....	18	21	1	22
Haldimand	....	....	....	28	1	29	....	....	....	4	1	5	5	1	6
Halton	....	....	....	24	4	28	....	....	....	3	1	4	7	3	10
Hastings	....	3	3	57	8	65	....	....	....	9	....	9	26	5	31
Huron	....	1	1	58	6	64	....	....	....	8	....	8	13	4	17
Kent	....	....	....	50	7	57	....	....	....	5	....	5	17	5	22
Lambton	1	3	4	47	18	65	....	....	....	8	1	9	20	8	28
Lanark	1	1	2	15	2	17	....	....	....	5	....	5	3	1	4
Leeds	1	....	1	27	2	29	....	....	....	9	....	9	7	2	9
Lennox and Addington	....	....	....	35	1	36	....	....	....	9	....	9	16	....	16
Lincoln	....	3	3	21	6	27	....	....	....	4	1	5	8	4	12
Middlesex	4	5	9	93	24	117	....	....	....	7	....	7	36	12	48
Muskoka District	1	....	1	37	1	38	....	....	....	3	....	3	12	1	13
Nipissing District	1	....	1	12	3	15	....	....	....	3	....	3	12	2	14
Norfolk	....	....	....	24	6	30	....	....	....	10	....	10	9	....	9
Northumberland	....	1	1	29	1	30	....	....	....	8	....	8	16	1	17
Ontario	1	....	1	56	6	72	....	....	....	6	....	6	19	2	21
Oxford	1	1	2	59	20	79	....	....	....	8	....	8	25	9	34
Parry Sound District	....	....	....	4	1	5	....	....	....	....	....	....	9	1	10
Peel	....	....	....	33	1	34	....	....	....	6	....	6	13	1	14
Perth	1	1	2	39	11	50	....	....	....	8	....	8	11	5	16
Peterborough	1	....	1	37	3	40	....	....	....	7	....	7	14	2	16
Prescott	....	....	....	13	....	13	....	....	....	9	....	9	9	....	9
Prince Edward	1	1	2	19	3	22	....	....	....	....	....	....	6	2	8
Rainy River District	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....
Renfrew	3	....	3	39	1	40	....	....	....	6	....	6	20	1	21
Russell	....	....	....	10	1	11	....	....	....	....	....	....	5	1	6
Simcoe	5	1	6	160	12	172	....	....	....	18	1	19	56	7	63
Stormont	....	....	....	18	4	22	....	....	....	11	....	11	3	3	6
Thunder Bay District	....	....	....	1	4	5	....	....	....	....	3	3	....	3	3
Victoria	2	....	2	37	8	45	1	....	1	7	1	8	7	4	11
Waterloo	1	....	1	44	9	53	....	....	....	2	2	4	12	3	15
Welland	....	1	1	17	3	20	....	....	....	1	1	2	5	2	7
Wellington	....	2	2	41	10	51	....	....	....	4	....	4	9	5	14
Wentworth	3	2	5	107	29	136	....	....	....	11	....	11	43	16	59
York	10	13	23	402	97	499	....	4	4	39	6	45	180	52	232
Unascertained	....	....	....	30	5	35	....	....	....	4	....	4	3	3	6
Totals	48	43	91	2,290	371	2,661	1	4	5	331	21	352	817	196	1,013

TABLE No. 6.

Periods.	Alleged duration of attack prior to admission.	Length of residence of those remaining in Hospitals on Oct 31st, 1912.		Periods of treatment of those who were discharged recovered during the year.		Periods of treatment of those who were discharged improved during the year.		Periods of treatment of those who were discharged unimproved during the year.		Periods of treatment of those who died during the year.	
	Woodstock Hospital.	Orillia Hospital.	Woodstock Hospital.	Orillia Hospital.	Woodstock Hospital.	Orillia Hospital.	Woodstock Hospital.	Orillia Hospital.	Woodstock Hospital.	Orillia Hospital.	Woodstock Hospital.
Under 1 month		6	5								1
From 1 to 2 months		1	6						1	1	
" 2 " 3 "	1	7	2								
" 3 " 4 "		3	5						3		
" 4 " 5 "		6					1		1		
" 5 " 6 "		1	4								
" 6 " 9 "		16	11				2				3
" 9 " 12 "	1	7	5								3
" 12 " 18 "		37	14				4		2	2	4
" 18 months to 2 years	1	19	13				4	1			1
" 2 to 3 years	1	36	49			1	3		1		8
" 3 " 4 "	1	48	25								1
" 4 " 5 "	2	35	23				1			2	
" 5 " 10 "	7	190	34			1				14	1
" 10 " 15 "	17	136								5	
" 15 " 20 "	4	119								8	
" 20 years and upwards	8	150								2	
Totals	43	817	196			2	15	1	8	34	22

TABLE No. 7.

Showing the general movement and result of treatment of patients in the Hospital for Feeble Minded, Orillia, during each of the thirty-three years from the 1st January, 1879, to the 31st October, 1912.

	Average daily number of patients in residence.			Number patients admitted each year.			Number of patients discharged improved and unimproved each year.			Number of patients who died in each year.			Percentage of deaths upon number residents.			Number of patients remaining in Hospital at the end of each year.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Average five years— 1879 to 1883	87	84	171	18	16	34	2	1	3	6	7	13	6.25	7.69	6.95	96	91	187
Average five years— 1884 to 1888	122	109	231	18	18	36	2	2	4	10	7	17	8.13	6.19	7.20	123	113	236
Average five years— 1889 to 1893	221	183	404	42	36	78	2	2	4	12	16	28	5.55	8.33	6.87	216	192	408
Average five years— 1894 to 1898	322	264	586	44	38	82	4	4	8	24	23	47	7.28	8.52	7.84	330	270	600
1899	353	295	648	39	43	82	3	6	9	29	28	57	8.12	9.33	8.67	357	300	657
1900	351	300	651	45	26	71	4	5	9	41	24	65	11.48	8.08	9.94	357	297	654
1901	354	300	654	33	22	55	8	1	9	32	16	48	9.12	5.29	7.36	350	302	652
1902	349	307	656	29	28	57	9	1	10	22	16	38	6.36	5.11	5.76	346	313	659
1903	348	324	672	30	39	69	4	3	7	24	7	31	6.89	2.05	4.49	348	342	690
Average five years	351	305	656	35	32	67	6	3	9	30	18	48	8.40	5.97	7.25	352	311	663
1904	350	350	700	39	43	82	3	2	5	23	18	41	6.37	4.94	5.65	361	364	725
1905	368	368	736	46	35	81	6	2	8	29	26	55	7.79	7.03	7.41	372	370	742
1906	375	377	752	43	40	83	5	4	9	40	22	62	10.64	5.71	8.15	376	385	761
1907	380	390	770	35	31	66	7	3	10	21	19	40	5.48	4.85	5.16	383	392	775
1908	384	390	774	36	28	64	5	2	7	22	31	53	5.65	8.01	6.83	389	387	776
Average five years	369	375	744	40	35	75	5	3	8	27	23	50	7.19	6.11	6.64	376	378	754
*1909	390	386	776	29	28	57	11	3	14	15	18	33	3.84	4.66	4.26	392	394	786
1910	384	383	787	30	18	48	5	7	12	20	16	36	5.07	4.17	4.58	397	389	786
1911	410	391	801	50	18	68	2	2	4	12	13	25	2.93	3.33	3.12	417	392	809
1912	412	400	812	19	29	48	1	2	3	17	17	34	4.12	4.25	4.18	415	402	817

*Ten months ending October 31st, 1909.

TABLE No. 8.

Showing the general movement and result of treatment of patients in the Hospital for Epileptics, Woodstock, during each of the years from the 1st April, 1906, to the 31st October, 1912.

——	Average daily number of patients in residence.			Number of patients admitted each year.			Number of patients recovered in each year.			Number of patients discharged improved and unimproved each year.			Number of patients who died in each year.			Percentage of recoveries upon admission.			Percentage of deaths upon number residents.			Number of patients remaining in Hospital at the end of each year.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
1906 (Nine months)....	18	14	32	32	26	58	....	....	....	5	5	10	1	2	3	.....	.....	.....	3.85	10.53	6.67	26	19	45
1907.....	32	26	58	30	22	52	1	....	1	13	3	16	2	2	4	3.33	.0	1.92	5.26	5.71	5.48	38	35	73
1908.....	45	40	85	30	13	43	....	2	2	7	2	9	2	....	2	.0	15.38	4.65	3.39	.0	1.94	59	44	103
*1909.....	64	48	112	27	15	42	....	....	....	14	7	21	2	1	3	.....	.....	.....	3.39	2.27	2.68	70	51	121
1910.....	87	68	155	38	38	76	1	....	1	14	7	21	3	2	5	2.63	.0	1.32	3.45	2.94	3.22	90	78	168
1911.....	97	89	186	31	26	57	....	....	....	13	6	19	6	2	8	.....	.....	.....	6.18	2.25	4.30	102	96	198
1912.....	99	95	194	27	16	43	....	....	....	15	8	23	11	11	22	.....	.....	.....	10.78	11.46	11.11	103	93	196

*Ten months ending October 31st, 1909.

TABLE No. 9.

DEATHS IN HOSPITALS.

Hospital.	No. of deaths.	Daily average population.	Percentage of deaths to daily average population.
Orillia	34	812	4.18
Woodstock	22	194	11.34
Totals	56	1,006	5.57

TABLE No. 10.

The following table shows the number of beds in each of the Hospitals, number in residence, and applications on fyle at close of official year.

Asylums.	Number of beds			Number in residence on 31st October, 1912.			Number of vacancies.			Over population.			Applications on fyle.		
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Orillia	362	378	740	415	402	817	.....	.....	.....	53	34	87	.....	.....	124
Woodstock.....	104	104	208	103	93	196	1	11	12	.....	.....	.....	4	2	6
Totals	466	482	948	518	495	1,013	1	11	12	53	34	87	.....	.....	130

TABLE No. 11.

Showing the number of officers and employees in each and all of the Hospitals, classified according to the duties performed.

Occupation.	Orillia Hospital.	Woodstock Hospital.	Total.
Medical Superintendents	1	1	2
Associate Physicians	2	1	3
Bursars	1	1	2
Stenographers	1	1	2
Storekeepers	1	.....	1
Matrons	1	1....	2
Assistant Matrons	1	.....	1
Cooks	5	5....	10
Laundresses	3	1	4
Housemaids and Dairymaids	11	2	13
Seamstresses	3	1	4
Bakers	1	.....	1
Tailors and Shoemakers	2	.....	2
Laundryman	1	.....	1
Engineer and Assistants	2	1....	3
Stokers	4	1	5
Bricklayers and Masons	1	.....	1
Carpenters	1	1....	2
Painters	1	.....	1
Farmers	.....	1....	1
Farmers' Assistants	2	3	5
Gardeners	1	1	2
Chief Attendants (males)	1	1	2
Supervisors (males)	2	2	4
Attendants (males)	20	6	26
Attendants (females)	14	8	22
Teachers	2	.....	2
Totals	85	39	124

TABLE No. 12.

Statement of revenue from paying patients and from farm and miscellaneous sources for the year, ending October 31st, 1912.

Hospital.	No. of paying patients.	From paying patients.	From farm and Miscellaneous.	Totals.
Orillia	126	9,684 43	$753 80	$10,438 23
Woodstock	124	13,087 67	1,655 86	14,743 53
Totals	250	$22,772 10	$2,409 66	$25,181 76

TABLE No. 13.

Showing the expenditure on maintenance under the different headings of the estimates for the year, ending October 31st, 1912.

Headings of Estimates.	Orillia Hospital.	Woodstock Hospital.
Medicines	$991 84	$534 58
Groceries	33,468 08	10,637 59
Heat and Light	8,091 24	4,799 57
Clothing	7,218 73	388 61
Laundry	2,358 14	791 33
Repairs	5,791 89	1,042 09
Office	553 92	293 76
Farm	4,853 94	2,484 21
Miscellaneous	1,751 70	1,903 70
Total expenses	$65,079 48	$22,875 44
Salaries	$29,947 50	$15,560 59
Grand Totals	$95,026 98	$38,436 03

Notes on Per Capita Statement.

Attached hereto is a statement of the cost of maintenance per patient per day for the twelve months ending October 31st, 1912, in the ten hospitals mentioned, as compared with the year 1911, being based on actual consumption.

It follows out the order of the sub-divisions of appropriations voted by the Legislature, and is calculated to two places of decimals of a cent. The figures in black-faced type represent totals.

Invoices for all purchases, properly certified by the Bursar and the Storekeeper, as to accuracy and receipt of goods, are checked in the Department before being submitted to the Treasury for payment.

A system of Daily Requisitions for all supplies, such as provisions, is carried out and these requisitions are forwarded to the Department semi-weekly. In case of coal, the amount consumed on each shift is weighed and weekly report of consumption made by the engineer.

Under headings "Provisions" and "Clothing" is shown only consumption by patients—the value of such supplies to officers, attendants, nurses and employees being included in the account "Employees' Meals and Uniforms" under the heading "Salaries."

Quarterly inventories of stock are taken at each Institution, and are checked with the ledger accounts of the Department.

Returns are made of all products of the Farm and Garden, as received, charges being made against the cost of maintenance, and the Farm and Garden given credit for the same; for this purpose a uniform price list is in use for all Institutions, regardless of size or fertility of farm. At the end of the year the value per patient per day of such products—fruits, vegetables, feed and fooder, meat and eggs—is deducted from the gross per capita cost and appears in the statement as "Farm Recoveries."

TABLE

Comparative Statement of Average Maintenance Cost per Capita

	Brockville.		Cobourg.		Hamilton.	
	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.
Days' residence of patients	251 398	246,745	55,994	55,276	456,711	446,803
Average number of patients	6·6.81	676.01	152.99	151.39	1,247.84	1,224.11
	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.
MEDICINES	.45	.44	.26	.27	.23	.27
Medicines and Medical comforts	.45	.44	.26	.27	.23	.27
PROVISIONS	14.98	13.39	9.01	9.22	14.66	13.44
Breakfast Foods and Cereals	.28	.35	.19	.27	.25	.25
Butter	1.83	1.84	1.13	1.12	2.31	2.15
Coffee and Tea	.47	.43	.41	.49	.45	.41
Eggs	.57	.45	.43	.27	.31	.30
Flour, Bread, etc	1.88	1.71	1.43	1.59	1.82	1.64
Fruit and Vegetables—Fresh	.33	.40	.31	.38	.74	.63
" " Canned and Dried	.56	.48	.19	.26	.42	.44
Milk	1.77	1.43	1.45	1.32	1.23	1.29
Potatoes	1.05	.69	.33	.30	.84	.69
Salt, Spices, Pickles, etc	.07	.08	.03	.02	.08	.09
Sugar and Syrup	.94	.99	.54	.44	.86	.77
Unenumerated Groceries	.88	.55	.45	.57	.81	.70
Butchers' Meat	3.98	3.65	2.07	2.13	3.86	3.43
Fish and Fowl	.37	.34	.05	.06	.68	.65
HEATING AND LIGHTING	7.12	7.15	4.72	4.74	5.65	6.53
Coal and Wood	5.74	5.77	3.82	3.83	4.95	5.51
Electricity	.06	.03	.89	.90	.42	.71
Gas	1.27	1.30	.....	.....	.26	.29
Oil, Candles, Matches, etc	.05	.05	.01	.01	.02	.02
CLOTHING	2.41	2.21	1.07	.90	1.49	1.50
Clothing—Dry Goods	1.95	1.74	.83	.68	1.21	1.27
Boots, Shoes, etc	.46	.47	.24	.22	.28	.23
LAUNDRY AND CLEANING	.69	.71	.85	.82	.59	.63
Brushes, Brooms and Mops	.15	.17	.06	.05	.10	.09
Miscellaneous Expenses	.17	.16	.11	.13	.18	.14
Soap	.37	.38	.68	.64	.31	.40
REPAIRS AND REPLACEMENTS	2.01	1.85	.89	1.14	2.00	1.77
Furniture and Furnishings	1.81	1.65	.61	.83	1.45	1.29
Plant	.20	.20	.28	.31	.55	.48
OFFICE EXPENSES	.42	.38	.43	.37	.26	.22
Miscellaneous Items	.21	.16	.15	.12	.14	.10
Postage	.11	.12	.11	.06	.06	.05
Telephone and Telegraph	.10	.10	.17	.19	.06	.07
SALARIES	16.48	14.69	22.27	22.64	13.59	13.03
Supt. and Physicians	2.06	2.20	5.95	6.02	1.76	1.78
Bursar and Assistants	1.54	1.55	2.28	2.67	1.04	1.04
Matron and Assistants	2.16	1.98	4.86	4.86	2.00	1.99
Engineer and Assistants	1.38	1.28	3.40	3.17	1.06	1.02
Artisans, not Domestic	.82	.77	.53	.54	.53	.53
Farm and Garden	1.03	1.02	1.07	1.09	1.05	1.02
Teachers	.....	.....	.....	.....	.....	.....
Attendants	4.87	3.35	.....	.....	4.04	3.67
Nurses	2.62	2.54	4.18	4.29	2.11	1.98

No. 14.

per Day for the Twelve Months ending October 31st, 1912.

Kingston.		London.		Mimico.		Orillia.		Penetang.		Toronto.		Woodstock.	
This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year
206,667	206,559	393,816	393,946	219,521	217,210	929	292,652	132,614	133,092	327,307	318,739	70,379	67,118
4.66	565 91	1,076.	1,079,20	599.78	595.09	814.01	801 78	362.32	36 634	894.28	873.25	191.74	183.88
Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cts·
.59	.52	.30	.24	.42	.45	.34	.27	.17	.16	.32	.34	.76	.68
.59	.52	.30	.24	.42	.45	.34	.27	.17	.16	.32	.34	.76	.68
14.13	**13.36**	**12.58**	**12.17**	**13.44**	**12.23**	**10.72**	**10.29**	**10.72**	**11.82**	**17.92**	**17.36**	**15.35**	**15.18**
.25	.29	.40	.35	.31	.29	.14	.17	.19	.20	.24	.32	.27	.41
1.93	1.93	1.96	1.94	2.74	2.75	2.33	2.43	1.94	2.27	2.64	2.62	4.02	3.84
.50	.43	.60	.48	.39	.33	.32	.27	.44	.43	.44	.46	.45	.38
.29	.41	.18	.23	.54	.60	.07	.04	.01	.02	.66	.52	.18	.21
1.80	1.56	1.89	1.74	1.84	1.79	2.12	1.88	1.89	1.79	1.67	1.67	1.69	1.50
.52	.51	.58	.62	.75	.54	.71	.37	.23	.28	.33	.58	1.01	.94
.57	.52	.26	.30	.33	.40	.34	.33	.19	.37	.87	.62	.86	.99
1.24	1.21	1.32	1.60	1.02	.99	.83	.88	1.23	1.50	1.52	1.67	2.94	3.12
.84	.69	.29	.41	.55	.27	.32	.35	.44	.39	1.12	.68	.92	.52
.08	.08	.08	.10	.06	.11	.05	.04	.01	.03	.12	.16	.06	.05
.79	.72	1.06	.82	.90	.79	.57	.53	.34	.37	1.00	.91	1.16	.93
.95	.74	.46	.62	.82	.52	.25	.27	.12	.50	.74	.82	.24	.66
3.85	3.72	3.14	2.70	2.66	2.31	2.26	2.35	3.23	3.25	5.55	5.33	.97	1.05
.52	.55	.36	.26	.53	.54	.41	.38	.42	.42	1.02	1.00	.58	.58
7.16	**7.25**	**4.82**	**5.15**	**7.10**	**5.80**	**3.39**	**3.42**	**4.69**	**5.00**	**5.50**	**5.38**	**6.88**	**5.86**
7.10	7.21	3.59	3.96	6.98	5.65	3.01	3.16	4.64	4.94	4.59	4.05	5.55	4.42
.....	.....	.44	.....	.....	.....	.36	.25	.....	.....	.23	.54	1.31	1.40
.....	.....	.76	1.16	.....	.....	.....	.....	.....	.....	.64	.76	.....	.....
.06	.04	.03	.03	.12	.15	.02	.01	.05	.06	.04	.03	.02	.04
2.38	**1.67**	**1.95**	**1.78**	**1.70**	**2.11**	**2.30**	**2.15**	**1.48**	**1.96**	**1.58**	**1.04**	**.51**	**.55**
1.84	1.26	1.42	1.34	1.40	1.77	1.77	1.59	1.00	1.55	1.38	.80	.33	.37
.54	.41	.53	.44	.30	.34	.53	.56	.48	.41	.20	.24	.18	.18
1.09	**1.11**	**.89**	**.86**	**.83**	**.85**	**.79**	**.79**	**.57**	**.52**	**.88**	**.93**	**1.11**	**1.29**
.18	.28	.17	.16	.18	.18	.15	.15	.07	.10	.17	.13	.10	.13
.28	.21	.22	.19	.16	.20	.04	.06	.12	.09	.17	.12	.31	.27
.63	.62	.50	.51	.49	.47	.60	.58	.38	.33	.54	.68	.70	.89
3.33	**3.14**	**2.45**	**2.34**	**2.42**	**2.46**	**1.92**	**1.58**	**1.02**	**1.48**	**2.37**	**2.50**	**1.25**	**1.02**
2.63	1.94	1.82	1.91	1.85	2.05	1.42	1.12	.54	.97	1.95	1.91	.86	.67
.70	1.20	.63	.43	.57	.41	.50	.46	.48	.51	.42	.59	.39	.35
.59	**.65**	**.35**	**.28**	**.42**	**.38**	**.18**	**.21**	**.22**	**.16**	**.33**	**.30**	**.41**	**.28**
.35	.42	.19	.14	.22	.18	.07	.12	.10	.04	.17	.15	.23	.09
.15	.14	.07	.06	.09	.10	.05	.05	.04	.04	.05	.05	.09	.10
.09	.09	.09	.08	.11	.10	.06	.04	.08	.08	.11	.10	.09	.09
21.15	**20.45**	**15.43**	**14.55**	**18.62**	**18.16**	**10.06**	**9.89**	**18.03**	**17.47**	**16.53**	**16.05**	**22.11**	**21.53**
3.21	3.36	1.60	1.70	2.79	2.76	1.76	1.66	2.77	2.78	2.18	2.06	5.02	4.21
1.58	1.53	1.20	1.12	1.39	1.27	.94	.96	1.69	1.69	1.67	1.56	2.56	2.69
2.92	2.85	2.36	2.25	2.52	2.40	2.07	2.01	2.95	2.65	2.72	2.67	3.17	3.02
1.53	1.50	1.51	1.20	1.96	2.11	.90	.83	2.04	1.98	.87	1.02	1.28	1.21
1.34	1.27	.93	.97	.83	.74	.61	.63	1.29	1.27	.88	1.03	.91	.96
1.17	1.11	1.31	1.14	1.83	1.73	.44	.54	2.15	2.10	.76	.68	3.12	3.28
.....	.....	.....	.....	.....	.....	.20	.21	.....	.....	.....	.....	.....	.....
5.36	5.19	4.02	3.85	4.46	4.73	2.35	2.16	2.98	2.86	4.24	4.22	3.59	3.65
4.04	3.64	2.50	2.32	2.84	2.42	.79	.89	2.16	2.14	3.21	2.81	2.46	2.51

TABLE

Comparative Statement of Average Maintenance Cost per Capita

	Brockville.		Cobourg.		Hamilton.	
	This Year.	Last Year.	This Year.	Last Year.	This Year	Last Year.
Days' residence of patients	251.398	246.745	55.994	55.276	453,711	446,803
Average number of patients	686.88	676.01	2.99	151.39	1,247.84	1,224.11
	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.
ALLOWANCES	4.67	4.09	3.74	3.74	4.66	4.32
Employees' Meals and Uniforms	4.48	3.94	3.58	3.52	4.60	4.24
Employees' Other Allowances	.19	.15	.16	.22	.06	.08
FARM AND GARDEN	4.30	3.02	.19	.21	3.74	2.91
Feed and Fodder	2.83	2.29	.....	.....	2.55	2.19
Miscellaneous Farm Expenses	.86	.67	.09	.17	.78	.57
Seeds, etc	.61	.06	.10	.04	.41	.15
MISCELLANEOUS	1.79	1.84	1.92	1.85	1.18	1.38
Amusements, Religion, Education	.19	.18	.09	.03	.05	.07
Elopers, Cost of Recovery	.02	.01	.....	.....	.....	.....
Freight, Duties, etc	.08	.07	.16	.09	.04	.07
Ice	.19	.13	.23	.23	.13	.23
Incidental Expenses	.23	.35	.46	.38	.28	.33
Officers' Travelling Expenses	.08	.09	.09	.01	.07	.06
Power	.....	.....	.....	.....	.....	.....
Water	1.00	1.01	.89	1.11	.61	.62
Brush Industry	.....	.....	.....	.....	.....	.....
Per Capita cost per day, less Salaries	34.17	30.99	19.34	19.5	29.80	28.65
" " " " " of Salaries	21.15	18.78	26.01	26.38	18.25	17.35
Total gross per Capita cost per day	55.32	49.77	45.35	45.90	48.05	46.00
Less Farm Recoveries	5.15	4.10	.39	.36	5.34	4.14
Total Net per Capita cost per day	50.17	45.67	44.96	45.54	42.71	41.86
Less total revenue per Capita per day	6.16	6.86	1.86	1.48	8.98	9.09
Net per Capita burden payable by Province	44.01	37.81	43.10	44.06	33.73	32.77

N.B.—The accompanying is a Comparative Statement of the cost of maintenance per patient per day for the twelve months ending 31st October, 1912, in the ten Hospitals for the Insane, as compared with the twelve months ending 31st October, 1911, based on actual consumption and calculated to two places of decimals of a cent. The figures in black-faced type represent totals.

Under the headings "Provisions" and "Clothing" is shown the actual consumption by patients—the value of such supplies to officers, attendants, nurses and employees being included in the account "Employees' Meals and Uniforms."

Where no charge is shown for light or water, these are included in the cost of coal.

The produce of the Farm and Garden consumed is included in the gross per capita cost. The total crop being deducted as shown, gives the net per capita cost per day.

No. 14—*Continued.*

per Day for the Twelve Months ending October 31st, 1912.—*Continued.*

Kingston.		London.		Mimico.		Orillia.		Penetang.		Toronto.		Woodstock.	
This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.	This Year.	Last Year.
206,667	206,559	393,816	393,946	219,521	217,210	297,929	292,652	132,614	133,092	317,307	318,739	70,379	67 118
564 66	565.91	1.076.	1,079.30	599.78	595.09	814.01	801.78	362.3?	364.63	894.28	873.25	191.74	183.88
Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cents.	Cts.
5.42	4.91	4.99	4.32	6.32	5.78	2.92	2.77	4.29	4.13	3.71	3.82	5.11	5.29
5.20	4.74	4.91	4.25	6.03	5.58	2.85	2.66	3.86	3.67	3.65	3.67	5.07	5.21
.22	.17	.08	.07	.29	.20	.07	.11	.43	.46	.06	.15	.04	.08
3.32	3.08	3.71	2.83	2.80	2.46	2.56	1.44	3.19	3.35	1.55	1.78	5.54	5.34
2.03	2.14	2.96	2.17	1.73	1.46	1.21	.85	2.73	2.45	1.38	1.50	3.77	4.02
.96	.74	.50	.44	.62	.67	1.17	.49	.23	.73	.15	.25	.93	.94
.33	.20	.25	.22	.45	.33	.18	.10	.23	.17	.02	.03	.84	.38
.84	.87	.62	.45	.63	.75	.74	.61	1.84	1.65	1.35	1.18	2.72	2.97
.23	.19	.09	.12	.15	.22	.10	.10	.04	.05	.13	.16	.06	.04
.01	.03	.03	.02	.01	.....	.....	.....	.01	.....	.....	.01	.....	.01
.10	.10	.06	.05	.09	.13	.21	.09	.26	.20	.07	.06	.08	.06
.15	.11	.04	.02	.15	.16	.02	.02	.07	.....	.24	.27	.02	.09
.30	.33	.38	.23	.18	.22	.12	.14	.22	.22	.45	.28	.05	.12
.05	.08	.02	.01	.05	.02	.05	.08	.10	.05	.02	.01	.03	.04
.....	.....	.....	.....	.....	.....	.12	.09	.....	.....	.....	.....	.....	.....
.....	.....	.....	.....	.....	.....	.12	.09	1.14	1.13	.44	.39	2.48	2.61
.....	.03	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
33.43	31.65	27.67	26.10	29.76	27.49	22.94	20.76	23.91	26.10	31.80	30.81	34.53	33.17
26.57	25.36	20.42	18.87	24.94	23.94	12.98	12.66	22.32	21.60	20.24	19.87	27.22	26.82
60.00	57.01	48.09	44.97	54.70	51.43	35.92	33.42	46.23	47.70	52.04	50.68	61.75	59.99
3.20	3.85	6.32	5.14	5.25	4.17	3.94	2.24	4.50	4.11	1.34	2.11	11.11	9.09
56.80	53.16	41.77	39.83	49.45	47.26	31.98	31.18	41.73	43.59	50.70	48.57	50.64	50.90
8.48	7.33	9.63	9.77	9.56	8.60	3.50	4.41	2.35	2.60	17.81	16.96	20.95	21.92
48.32	45.83	32.14	30.06	39.89	38.66	28.48	26.77	39.38	40.99	32.89	31.61	29.69	28.98

TABLE No.

Comparisons, Appropriation, Expenditure, Consumption, Population

—		Brockville.	Cobourg.	Hamilton.
Days' residence of patients,		251,398	55,994	456,711
Average number of patients		686.81	152.99	1,247.84
Medicines	Appropriation	$1,200	200	1,200
	Expenditure	1,094 38	144 20	1,027 35
	Consumption	1,124 59	144 20	1,057 55
Provisions	Appropriation	$41,000	7,800	71,000
	Expenditure	40,128 92	7,216 57	70,738
	Consumption	37,704 61	5,047 36	66,972 09
Heat and Light	Appropriation	$19,000	3,800	25,000
	Expenditure	18,320 29	3,069 71	24,859 75
	Consumption	17,874 88	2,642 98	25,822 59
Clothing, etc	Appropriation	$6,500	900	8,500
	Expenditure	6,489 16	603 32	8,010 06
	Consumption	6,055 67	596 81	6,790 22
Laundry, etc	Appropriation	$2,000	500	2,800
	Expenditure	1,995 76	462 90	2,576 76
	Consumption	1,734 45	477 45	2,705 90
Repairs, etc	Appropriation	$6,000	600	9,000
	Expenditure	5,798 17	528 65	8,999 06
	Consumption	5,050 11	499 97	9,134 75
Office	Appropriation	$1,200	300	1,400
	Expenditure	1,065 29	254 18	1,213 09
	Consumption	1,036 52	238 95	1,176 76
Salaries	Appropriation	$43,057	14,610	64,657
	Expenditure	41,425 82	12,467 86	62,107 09
	Consumption	53,187 92	14,566 13	83,367 56
Farm, etc	Appropriation	$7,500	300	9,000
	Expenditure	6,867 25	104 35	8,727 50
	Consumption	10,811 80	104 35	17,082 17
Miscellaneous Expense	Appropriation	$5,500	1,300	7,100
	Expenditure	5,241 21	961 47	6,498
	Consumption	4,494 46	1,075 83	5,371 18
Total Maintenance	Appropriation	$132,957	30,310	199,657
	Expenditure	128,426 25	25,813 21	194,756 66
	Consumption	139,075 01	25,394 03	219,480 57
Capital Accounts	Appropriation	$70,100	3,600	67,993 09
	Expenditure	33,221 55	1,899 29	49,510 50
	Consumption	.....	.....	.....
Grand Total	Appropriation	$203,057	33,910	267,650 09
	Expenditure	161,647 80	27,712 50	244,267 16
	Consumption	.....	.....	.....
REVENUE COLLECTIONS.				
From paying patients this year to date		$15,038 37	851 38	40,521 67
" " last "		15,633 63	526 89	41,978 47
From Farm and Misc. this year to date		$ 440 28	191 02	517 05
" " last "		1,293 12	288 87	546 25
Total Revenue this year to date		$15,478 65	1,042 40	41,038 72
" last "		16,926 75	815 76	42,524 72
Grand Total this year to date from the above institutions		.....	.....	.....
" last " " " "		.....	.....	.....
Total Revenue per capita per day this year to date—cents		6.16	1.86	8 98
" " " last " —cents		6.86	1.48	9.09

14.—*Concluded.*

and Revenue for the 12 Months ending 31st October, 1912.

Kingston.	London.	Mimico.	Orillia.	Penetang.	Toronto.	Woodstock.
206,667	393,816	219,521	297,929	132,614	327,307	70,379
1,564 66	1,076	599 78	814 01	362 32	894 28	191 74
1,200	1,200	1,200	1,000	750	1,200	600
1,199 24	**1,181 57**	**955 52**	**991 84**	**232 68**	**1,040 64**	**534 58**
1,211 34	1,181 57	923 42	1,008 87	232 68	1,040 64	534 58
36,000	59,600	37,000	35,000	18,000	69,000	11,000
35,074 82	**54,954 37**	**36,215 79**	**33,468 08**	**16,024 20**	**67,363 23**	**10,637 59**
29,207 24	49,544 92	29,488 63	31,923 06	14,212 78	58,648 53	10,804 77
15,000	23,000	14,000	12,000	10,000	18,300	5,000
14,973 01	**21,431 37**	**13,682 09**	**8,091 24**	**7,841 78**	**16,641 98**	**4,799 57**
14,800 97	18,971 55	15,585 81	10,085 63	6,206 82	17,972 94	4,846 75
5,800	9,800	6,000	7,500	4,800	6,000	1,000
5,209 40	**9,299 51**	**5,505 48**	**7,218 73**	**1,834 82**	**5,994 16**	**388 61**
4,918 64	7,660 02	3,726 53	6,838 70	1,957 52	5,178 68	361 45
2,160	3,600	2,000	2,500	1,200	3,500	1,200
2,158 52	**3,589 64**	**1,977 15**	**2,358 14**	**368 31**	**3,203 43**	**791 33**
2,261 88	3,538 42	1,827 28	2,373 71	761 21	2,877 99	770 02
7,000	9,800	6,000	6,000	4,000	7,000	1,500
6,400 50	**9,687 30**	**5,973 19**	**5,791 89**	**1,440 57**	**6,930 62**	**1,042 09**
6,884 52	9,658 19	5,327 77	5,740 10	1,352 48	7,779 34	882 92
1,500	1,500	1,000	900	600	1,500	500
1,221 76	**1,390 10**	**992 70**	**553 92**	**308 38**	**1,132 25**	**293 76**
1,221 76	1,371 60	937 80	539 42	294 78	1,074 65	285 43
46,323	65,420	46,255	35,082	26,585	56,932	18,066
43,699 54	**60,741 71**	**40,867 55**	**29,947 50**	**23,913 38**	**54,093 89**	**15,560 59**
54,910 31	80,422 88	54,731 83	38,658 02	29,602 83	66,253 39	19,155 71
6,500	8,000	4,000	5,500	4,500	7,200	2,500
6,330 83	**6,057 76**	**3,339 43**	**4,853 94**	**3,041 76**	**2,530**	**2,484 21**
6,864 96	14,612 25	6,163 85	7,639 89	4,239 04	5,069 72	3,900 31
2,000	2,100	2,000	2,500	2,500	6,500	3,500
1,424 22	**2,070 94**	**1,374 53**	**1,751 70**	**2,307 79**	**4,448 35**	**1,903 70**
1,737 42	2,425 94	1,370 59	2,218 85	2,437 12	4,437 16	1,916 10
123,483	184,020	119,455	107,982	72,935	177,132	44,806
117,691 84	**170,404 27**	**110,883 43**	**95,026 98**	**57,313 67**	**163,378 55**	**38,436 03**
124,019 04	189,387 34	120,083 51	107,026 25	61,297 26	170,333 04	43,458 04
29,200	68,600	33,300	50,700	18,800	207,800	11,200
21,473 21	**50,939 63**	**23,845 38**	**19,474 45**	**8,134 34**	**20,765 48**	**9,047 58**
.....	.....	.....	.....	.....	.....	.....
152,683	252,620	152,755	158,682	91,735	384,932	56,066
169,165 05	**221,343 90**	**134,728 81**	**114,501 43**	**65,448 01**	**184,144 03**	**57,483 61**
.....	.....	.....	.....	.....	.....	.....
16,809 16	36,877 40	19,190 34	9,684 43	2,532 85	57,275 76	13,087 67
14,839 55	37,942 05	17,169 80	10,956 49	2,420 13	52,566 66	13,559 57
733 78	1,049 24	1,804 58	753 80	587 74	1,007 85	1,655 86
300 87	543 20	1,503 65	1,955 34	1,041 40	1,490 63	1,152 46
17,542 94	37,926 64	20,994 92	10,438 23	3,120 59	58,283 61	14,743 53
15,140 42	38,485 25	18,673 45	12,911 83	3,461 53	54,057 29	14,712 03
.....	220,610 23	.....	.....	.....	.....	.....
.....	217,709 03	.....	.....	.....	.....	.....
8.48	9.63	9.56	3.50	2.35	17.81	20.95
7.33	9.77	8.60	4.41	2.60	16.96	21.92

APPENDIX

TO FORTY-FIFTH ANNUAL REPORT UPON THE HOSPITALS FOR THE INSANE, CONTAINING THE ANNUAL REPORTS OF THE MEDICAL SUPERINTENDENTS OF THE HOSPITAL FOR IDIOTS, ORILLIA, AND THE HOSPITAL FOR EPILEPTICS, WOODSTOCK.

Main Building, Orillia.

HOSPITAL FOR FEEBLE MINDED.

Report for the Year Ending October 31st, 1912.

E. R. Rogers, Esq.,

Inspector of Asylums, Toronto, Ontario.

Sir,—I have the honour to submit the Annual Report of the Hospital for Feeble Minded, Orillia, for the year ending October 31st, 1912.

The population throughout the year has kept constantly pressing upon the limits of our accommodation. Without any increase in room, we have maintained a daily average of 814, or 13 above the record for 1911. With our admirable system of ventilation and the thoroughly sanitary conditions that obtain throughout the institution, we have been enabled to house this large number of patients in reasonable comfort and fairly good health. It should not be necessary to emphasize the fact that the limit has been reached. Further admissions—no matter how urgent or distressing the cases—can only be granted as vacancies occur.

The demand for more accommodation for the care and custody of the Feeble Minded of the Province has increased during the year and found concrete expression in the representative meeting held in Toronto two months ago. I am of the opinion that the interests of this unfortunate class as a whole can best be served by institutional development on the basis established here. The most distressing appeals that come to us are not in behalf of cases that should find a place in a training school, but unfortunates whose improvability is out of the question or a matter of much doubt. Take last year's admissions for example: The total number received was 48, of these 15 were low grades, some of them physically helpless as well as mentally inert; 18 might be placed in the middle grade division, capable of looking after themselves under direction and doing a little work. Out of the balance—eight were good workers, but beyond the age of improvement—and seven gave promise of responding in some degree to intellectual and industrial training. I cite these figures to show that training schools will not meet the necessities of the situation in Ontario at the present time. Training schools would afford no succor to the utterly helpless—and more important, still—no protection to the imbecile girls and women, who, without custodial care, are almost certain to reproduce another generation of defectives. I think I am within the mark when I say that five-sixths of the applications on our files are for cases that offer little or no hope of improvement in a training school.

To my mind the ideal institution for the feeble minded, is one that opens its doors to all grades, provides for their proper classification, and while ministering to the comfort and happiness of all, develops in the improvable cases the greatest usefulness of each. The helpfulness and sympathy of the rugged and healthy toward their stricken companions, have impressed me more than I can tell. Nowhere, I believe, can one see more worthy examples of self-sacrifice and true Christian charity than among these children, feeble in intellect, 'tis true, but strong in the generous impulses of their hearts. In an exclusive training school, where the service would be entirely dependent upon employees, opportunities for the development of the virtues to which I have referred, would be fewer, and the spirit of mutual helpfulness less pronounced.

But the economic side of the question cannot be ignored. The maintenance of this and kindred institutions is kept well within the financial resources of the Province by the labour of the patients. Were we to stop the work of our men in the fields and barns and shops; of our girls in the sewing room, laundry and wards, and engage outside help for these various services, the annual expenditure would be enormously increased. If then, the Province and the municipalities have to care for the feeble minded, the greatest service to that unfortunate class with the lightest burden on the people would, in my opinion, be rendered, not by building and maintaining a separate training school for high grades but by developing the system under which the improvable cases can be trained according to their capacity, workers can be given healthful reproductive employment, and at the same time the comfort of the helpless ones sympathetically ministered to. With adequate accommodation, perfect classification of the various grades is easily attainable under such a system. Indeed, I rather incline to the belief that a more efficient training school is possible in the presence of the larger operations and more varied activities of an institution such as ours, than in a training school, set apart as such, and devoted solely to the education of high grades.

The past year has not been a very successful one for outside operations. Continued wet weather made it impossible to go on with drainage work in the Dunn Swamp until late in the autumn. The main drain, five feet deep and fifteen feet at top, has been completed for about eighty rods. In addition thirty acres of the swamp have been stumped and cleared. The prospects are that when our drainage and clearing operations are completed this swamp will work into one of the most valuable portions of the farm. A record year in farm operations had a disastrous close when in October the new dairy barn with nearly all the season's fodder was destroyed by fire. The foundation of the barn, the feed room, milk room and silo were but slightly damaged. This untoward event rendered it necessary to reduce our dairy herd to the minimum until a new barn can be erected.

Building operations for the year included the erection and equipment of two greenhouses, each 63 x 18 feet, a milk room, feed room, and silo at the barn, and a slaughter house, adequate for present and prospective requirements. Work on these buildings was all performed by our own employees and patients.

A new verandah on the boys' side of the Main Building done by contract, and two spiral fire escapes, one on either side of the same structure, have contributed to the comfort, pleasure and security of the children.

The work of the schools has gone on satisfactorily. While it is idle to attempt anything beyond a primary education for these children, the ability to read and to write, even simple sentences, undoubtedly adds to their interest and pleasure in life and the happiness of their friends at home. In the musical exercises a very large proportion take part. The facility with which some of the markedly defective can pick up the air of a song, would be surprising did not one's experience prove that a flash of musical genius often illumines the otherwise clouded mentality of these unfortunates. In the calisthenic and drill classes renewed interest is being taken: the number of children participating in these exerises has increased and a marked degree of efficiency has been attained, with unquestioned benefits physically to every child taking part, and no doubt brightening their faculties for alertness and concentration.

The Pathological Laboratory has continued to be a source of great satisfaction. Its usefulness has been many times demonstrated. The diphtheria epidemic with

which we were seriously threatened toward the end of our last year, ran on into the present year, and though there developed only six cases that might be considered serious from a clinical point of view—out of 262 laboratory examinations there were 107 positive findings—showing the presence of the diphtheria bacillus in a more or less active state. Isolation was carried out, though this involved the greatest difficulty in the management of the wards. When at last the condition cleared up and we ceased to have the occasional case of diphtheria, everyone felt amply repaid for the labour involved, and no one can tell how large a factor the immediate presence of the facility for pathological work was in stamping out what had every appearance of a critical situation.

In the ordinary medical work the pathological laboratory has been found of much service in urinalysis, blood examinations, and confirmatory diagnosis by the examination of tubercular sputum. Another field where considerable service has been rendered in this connection is the use now made of material obtained at autopsy. Preparations of the tissues for microscopic observation are filed with the case histories. In this way the notes made upon those who have died are amplified and made of some possible use for future reference.

With the prosecution of the work of the institution—everyone contributing a little to the aggregate of achievement—the pleasures of the children have not been forgotten. We have found our new launch a source of great enjoyment for all. One half day every week during the summer, has been given up to trips on the lake. As many as fifty-five of the smaller children are taken in one trip. It is a beautiful sight on a bright summer day to see the "Origue" swinging gracefully away from her wharf, the children singing merrily as they go. A more precious load of human freight many boats have borne, but none a happier or more appreciative. To our winter amusements the moving picture machine is a generous contributor. The weekly entertainments are thoroughly enjoyed by all, and many of the films prove instructive as well as entertaining.

In our last report we made reference to heredity as a contributing cause of feeble mindedness, with a view to directing public opinion to the necessity of taking mort active measures to prevent the propagation of this unfortunate class. Some striking instances of the burden which has followed public indifference to this grave question, have come under our notice during the past year. We have been asked in one instance to find room for a father, mother, one son and four daughters, and four grandchildren, the latter all illegitimate. In most cases this public scandal is allowed go on until one of the unfortunates commits some depredation, involving damage to property. Then the necessity for action is pressed home to the indifferent community, and we are asked to take charge of the entire family. More stringent marriage laws are no doubt desirable, but better still a public sentiment quickened to an appreciation of the fact that on each citizen rests a moral obligation for the protection of the feeble minded girl or woman.

One change in the staff has taken place during the past year. Dr. R. R. Graham resigned the position of Assistant Medical Director, to take a place on the staff of St. Michael's Hospital, Toronto. His position has been filled by Dr. Donald T. Evans, recently of the staff of the Toronto General Hospital.

It affords me much pleasure to bear witness to the loyalty and efficiency of officers and employees. The Medical Director, Dr. Herriman, has been unremitting

in his labours in behalf of the children, and his efforts have been ably seconded by the other members of the staff. Throughout the institution harmony and good feeling prevail, and all are working loyally for its success and the comfort and happiness of its afflicted inmates.

Thanking you, sir, for your cordial co-operation and valued counsel during the past year,

I have the honour to remain,

Your obedient servant,

J. P. Downey,

Superintendent.

Orillia, November 28th, 1912.

ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR FEEBLE MINDED, ORILLIA, FOR THE YEAR ENDING OCT. 31st, 1912.

TABLE No. 1—ORILLIA.

Showing movements of patients in the Hospital for the official year ending Oct. 31st, 1912.

	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	362	378	740			
In residence Oct. 31st, 1911				417	392	809
Admitted during year 1912:						
By Warrant		1	1			
By Medical Certificate	19	28	47	19	29	48
Total number under treatment during year				436	421	857
Discharges during year:—						
As recovered						
As improved		2	2			
As unimproved	1		1			
As not insane						
Total number discharged during year	1	2	3			
Died	17	17	34			
Deported	1		1			
Eloped	1		1			
Transferred	1		1	21	19	40
Remaining in Hospital Oct. 31st, 1912				415	402	817
Total number admitted since opening of Hospital				1,224	1,066	2,290
Total number discharged since opening of Hospital	128	82	210			
Total number died since opening of Hospital	634	556	1,190			
Total number deported since opening of Hospital	2		2			
Total number eloped since opening of Hospital	9		9			
Total number transferred since opening of Hospital	36	26	62	809	664	1,473
Total remaining in Hospital, Oct. 31st, 1912				415	402	817
Daily average population	412	400	812			
Collective days' stay of all patients in residence during year	150,957	146,199	297,156			
Number of applications on fyle			124			

TABLE No. 2—ORILLIA.

Showing social state and religion of patients admitted during the year and since opening of Hospital.

	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Social State.						
Single	19	28	47	1,210	1,054	2,265
Married	.....	1	1	11	11	22
Widowed	.....	.....	.....	.....	1	1
Divorced	.....	.....	.....	.....	.....	.....
Separated	.....	.....	.....	.....	.....	.....
Unascertained	.....	.....	.....	2	.....	2
Totals	19	29	48	1,224	1,066	2,290
Religion.						
Baptists	2	1	3	52	38	90
Congregationalists	.....	.....	.....	3	3	6
Church of England	7	4	11	223	218	441
Methodists	3	8	11	309	280	589
Presbyterians	3	7	10	216	203	419
Roman Catholics	1	4	5	228	151	379
Other Denominations	3	3	6	73	59	132
Unascertained	.....	2	2	120	114	234
Totals	19	29	48	1,224	1,066	2,290

TABLE No. 3—ORILLIA.

Showing nativity of patients admitted during the year and since opening of Hospital.

Nativity.	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Total Admissions	19	29	48	1,224	1,066	2,290
Total born in Canada	17	25	42	1,000	886	1,886
Armenia						
Assyria						
Austria				4	1	5
Australia						
Belgium						
Bulgaria						
Central America						
China						
Denmark						
England	2	4	6	68	63	131
France				3		3
Finland						
Galicia						
Germany				11	7	18
Greece						
Holland						
Hungary						
Ireland				50	42	92
Italy						
Japan						
Macedonia						
Other British Possessions				3	2	5
Norway						
Roumania						
Russia					1	1
Scotland				29	22	51
South America						
Spain						
Sweden				3	2	5
Turkey						
United States				18	13	31
West Indies						
Unascertained				35	27	62
Totals	19	29	48	1,224	1,066	2,290

TABLE No. 4—ORILLIA.

Showing the Occupation of those admitted during the year and since the opening of the Hospital.

Occupation.	Admitted this Year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc.	.....	.....	.....	.....	.....	.....
Commercial:— Bankers, Merchants, Accountants, Clerks, Salesmen, Stenographers, Typewriters, etc.	.....	.....	.....	3	.....	3
Agricultural and Pastoral:— Farmers, Gardeners, Stock Men, etc.	.....	.....	.....	6	.....	6
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers, Painters, Police, etc.	.....	.....	.....	2	.....	2
Mechanics, etc., at Sedentary Vocations:— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc.	.....	.....	.....	.....	.....	.....
Domestic Service: Waiters, Cooks, Servants, etc.:	.....	.....	.....	.....	.....	.....
Education and Higher Domestic Duties:— Governesses, Teachers, Students, Housekeepers, Nurses, etc.	.....	.....	.....	1	.....	1
Miners, Marine Engineers, Railway Employees, Seamen, etc.	.....	.....	.....	.....	.....	.....
Laborers	.....	.....	.....	10	.....	10
No Occupation	19	29	48	1,202	1,066	2,268
Unascertained	.....	.....	.....	.....	.....	.....
Totals	19	29	48	1,224	1,066	2,290

General View of Main Building and Grounds overlooking Lake, Orillia.

TABLE No. 5—ORILLIA.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospital.

Counties and Districts.	Admitted during year.			Admitted since opening.			Warrant cases. Admitted during year.			Warrant cases. Admitted since opening.			Remaining in residence.		
	Male.	Female.	Total	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District	....	....	....	13	12	25	....	....	....	2	2	4	3	4	7
Brant	1	....	1	20	16	36	....	....	....	1	....	1	7	3	10
Bruce	....	....	....	33	31	64	....	....	....	5	4	9	9	8	17
Carleton	1	....	1	41	32	73	....	....	....	6	5	11	11	14	25
Dufferin	....	3	3	7	11	18	....	....	....	.....	2	2	3	3	6
Dundas	....	2	2	11	5	16	....	....	...	3	1	4	4	4	8
Durham	....	....	....	17	20	37	....	....	....	.....	....	.....	5	5	10
Elgin	....	....	....	10	16	26	....	....	....	.....	4	4	2	5	7
Essex	1	1	2	30	22	52	....	....	....	2	3	5	11	9	20
Frontenac	1	....	1	47	38	85	....	....	....	14	13	27	19	8	27
Glengarry	....	....	....	12	5	17	....	....	....	4	....	4	5	1	6
Grenville	....	....	....	14	10	24	....	....	....	.....	....	.....	1	2	3
Grey	....	....	....	48	36	84	....	....	....	13	5	18	10	11	21
Haldimand	....	....	....	20	8	28	....	....	....	4	....	4	3	2	5
Halton	....	....	....	13	11	24	....	....	....	1	2	3	2	5	7
Hastings	....	....	....	27	30	57	....	....	....	4	5	9	17	9	26
Huron	....	....	....	32	26	58	....	....	....	5	3	8	6	7	13
Kent	....	....	....	24	26	50	....	....	....	2	3	5	9	8	17
Lambton	....	1	1	27	20	47	....	....	....	4	4	8	11	9	20
Lanark	....	1	1	9	6	15	....	....	....	4	1	5	1	2	3
Leeds	....	1	1	15	12	27	....	....	....	6	3	9	3	4	7
Lennox and Addington	....	....	....	19	16	35	....	....	....	2	7	9	9	7	16
Lincoln	....	....	....	11	10	21	....	....	....	2	2	4	4	4	8
Middlesex	3	1	4	61	32	93	....	....	....	6	1	7	28	8	36
Muskoka District	....	1	1	18	19	37	....	....	....	2	1	3	7	5	12
Nipissing District	....	1	1	6	6	12	....	....	....	3	....	3	6	6	12
Norfolk	....	....	....	10	14	24	....	....	....	5	5	10	3	6	9
Northumberland	....	....	....	12	17	29	....	....	....	5	3	8	6	4	10
Ontario	....	1	1	38	28	66	....	....	....	5	1	6	9	10	19
Oxford	1	....	1	30	29	59	....	....	....	7	1	8	13	12	25
Parry Sound District	....	....	....	3	1	4	....	....	....	.....	....	.....	3	6	9
Peel	....	....	....	11	22	33	....	....	....	3	3	6	4	9	13
Perth	1	....	1	17	22	39	....	....	....	6	2	8	4	7	11
Peterborough	1	....	1	15	22	37	....	....	....	3	4	7	7	7	14
Prescott	....	....	....	9	4	13	....	....	....	7	2	9	7	2	9
Prince Edward	....	1	1	8	11	19	....	....	....	.....	....	.....	4	2	6
Rainy River District	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Renfrew	2	1	3	19	20	39	....	....	....	1	5	6	10	10	20
Russell	....	....	....	4	6	10	....	....	....	.....	....	.....	...	5	5
Simcoe	1	4	5	84	76	160	....	....	....	11	7	18	21	35	56
Stormont	....	....	....	11	7	18	....	....	....	11	....	11	...	3	3
Thunder Bay District	....	....	....	1	.....	1	....	....	....	.....	....	.....	....	....	....
Victoria	....	1	1	22	14	36	....	....	....	5	1	6	3	3	6
Waterloo	....	1	1	22	22	44	....	....	....	2	....	2	5	7	12
Welland	....	....	....	9	8	17	....	....	....	.....	1	1	3	2	5
Wellington	....	....	...	26	15	41	....	....	....	2	2	4	4	5	9
Wentworth	2	1	3	56	51	107	....	....	....	3	8	11	18	25	43
York	4	6	10	216	186	402	....	....	....	28	11	39	94	86	180
Unascertained	....	....	....	16	14	30	....	....	....	2	2	4	1	2	3
Haliburton	....	1	1	.....	1	1	....	1	1	.....	1	1	...	1	1
Totals	19	29	48	1,224	1,066	2,290	....	1	1	201	130	331	415	402	817

TABLE No. 7.—ORILLIA

Showing hereditary tendency to Insanity in patients admitted during the year and since the opening of the Hospital.

	Admitted during Year.		
	Male.	Female.	Total.
Paternal Branch	2	2	4
Maternal Branch	3	7	10
Paternal and Maternal Branches	.....	3	3
Collateral Branches	7	3	10
No Hereditary Tendency	5	10	15
Unascertained	2	4	6
Totals	19	29	48

TABLE No. 8—ORILLIA.

Showing summary of Probational discharges during the year.

	Male.	Female.	Total.
Number Granted Discharge	.....	.....	.....
Discharged, Recovered	.....	.....	.....
Discharged, Improved	.....	.....	.....
Discharged, Unimproved	.....	.....	.....
Died	.....	.....	.....
Returned to Hospital	1	.....	1
Absent on Probation on October 31st, 1912	1	.....	1
	2	.....	2

TABLE No. 9—ORILLIA

Showing the causes of death of patients who died during the year and since the opening of the hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Specific Infectious Diseases:—						
Typhoid Fever				17	16	33
Influenza				2	7	9
Cerebro-spinal Meningitis				3	9	12
Diphtheria				1	1	2
Erysipelas				3	2	5
Septicæmia				5	2	7
Dysentery	1	1	2	13	10	23
Syphilis				3		3
Tuberculosis	1	5	6	154	151	305
Constitutional Diseases:—						
Rheumatism				1		1
Arthritis Deformans				1		1
Diabetes Mellitus				2		2
Diseases of the Digestive System:—						
Mouth, salivary glands						
Pharynx						
Tonsils					1	1
Œsophagus				1	2	3
Diseases of the Intestines:—						
Diseases of the Liver				9	5	14
Diseases of the Pancreas				2	1	3
Diseases of the Peritoneum	1		1	31	20	51
Diseases of the Respiratory System:—						
Diseases of the Nose and Larynx				3	2	5
Diseases of the Bronchi				11	8	19
Diseases of the Lungs	2	1	3	33	33	66
Diseases of the Pleura				7	1	8
Diseases of the Circulatory System:—						
Diseases of the Pericardium				2	1	3
Diseases of the Heart	4	2	6	45	45	90
Arterio-sclerosis		1	1		2	2
Aneurism						
Diseases of the Blood and Ductless Glands:—						
Anæmia				7	7	14
Pernicious Anæmia				4	7	11
Leukæmia					2	2
Exophthalmic Goitre						
Diseases of the Genito-Urinary System	1		1	16	6	22
Totals—*Carried Forward*	10	10	20	376	341	717

TABLE No. 9—*Continued.*

Showing the causes of death of patients who died during the year and since the opening of the hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Totals—*Brought Forward*	10	10	20	376	341	717
Diseases of the Nervous System:—						
Diseases of the Nerves	.....	.....	.....	5	6	11
Diseases of the Spinal Cord	.....	.....	.....	1	6	7
Diseases of the Meninges	.....	.....	.....	2	7	9
Organic Diseases of the Brain (Tumor, Abscess, Embolism, Thrombosis, Hæmorrhage, and other gross lesions).....	.....	1	1	14	14	28
Functional Nervous Diseases (Paralysis Agitans, Chorea, Eclampsia, Hysteria)	.....	.....	.....	1	3	4
Epilepsy	5	4	9	83	75	158
Mental Diseases:—						
Exhaustion of Acute Mental Disease	.....	.....	.....	.....	1	1
Exhaustion of Chronic Mental Disease	.....	.....	.....	.....	.....	.....
General Paresis	.....	.....	.....	53	37	90
Intoxications:—						
Alcoholism	.....	.....	.....	.....	.....	.....
Morphinism	.....	.....	.....	.....	.....	.....
Metallic Poisoning	.....	.....	.....	.....	.....	.....
Heat Stroke	.....	.....	.....	.....	1	1
Debility, Old Age, etc.....	1	2	3	78	53	131
Accident	.....	.....	.....	5	2	7
Suicide	.....	.....	.....	.....	.....	.....
Surgical Diseases	1	.....	1	14	8	22
Gynæcological Diseases	.....	.....	.....	.....	.....	.....
Malignant New Growths, or Cancer...	.....	.....	.....	2	2	4
Totals.....	17	17	34	634	556	1,190

TABLE No. 10—ORILLIA.

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female.	Total.	Male	Female	Total.	Male.	Female.	Total.
Infection Psychoses:—									
(a) Fever Delirium	....	....	....	....	....	....	....	....	....
(b) Infection Delirium	....	....	....	....	....	....	....	....	....
(c) Post Infection Psychoses	....	....	....	....	....	....	....	....	....
Exhaustion Psychoses:—									
(a) Collapsed Delirium	....	....	....	....	....	....	....	....	....
(b) Acute Confusional Psychoses	....	....	....	....	....	....	....	....	....
(c) Neurasthenia	....	....	....	....	....	....	....	....	....
Intoxication Psychoses:—									
(a) Acute Intoxications	....	....	....	....	....	....	....	....	....
(b) Chronic "	....	....	....	....	....	....	....	....	....
(a) Alcoholism (acute and chronic)	....	....	....	....	....	....	....	....	....
(b) Delirium Tremens	....	....	....	....	....	....	....	....	....
(c) Korsakow's Psychoses	....	....	....	....	....	....	....	....	....
(d) Acute Alcoholic Hallucinosis	....	....	....	....	....	....	....	....	....
(e) Alcoholic Hallucinatory Dementia	....	....	....	....	....	....	....	....	....
(f) " Paranoia	....	....	....	....	....	....	....	....	....
(g) " Paresis	....	....	....	....	....	....	....	....	....
(h) Morphinism	....	....	....	....	....	....	....	....	....
(i) Cocainism	....	....	....	....	....	....	....	....	....
Thyroigenous Psychoses:									
(a) Mixœdematous Psychoses	....	....	....	....	....	....	....	....	....
(b) Cretinism	....	....	....	....	....	....	....	....	....
Dementia Præcox:—									
(a) Hebaphrenic	....	....	....	....	....	....	....	....	....
(b) Catatonic	....	....	....	....	....	....	....	....	....
(c) Paranoid	....	....	....	....	....	....	....	....	....
General Paresis	....	....	....	....	....	....	....	....	....
Organic Dementias:—									
(a) Cerebral Sclerosis	....	....	....	....	....	....	....	....	....
(b) Huntingdon's Chorea	....	....	....	....	....	....	....	....	....
(c) Multiple Sclerosis	....	....	....	....	....	....	....	....	....
(d) Cerebral Syphilis	....	....	....	....	....	....	....	....	....
(e) Tabetic Psychoses	....	....	....	....	....	....	....	....	....
(f) Arterio sclerotic Psychoses	....	....	....	....	....	....	....	....	....
(g) Cerebral Tumor, Abscess, Hemorrhage	....	....	....	....	....	....	....	....	....
Involution Psychoses:—									
(a) Melancholia	....	....	....	....	....	....	....	....	....
(b) Pre-senile Delusional Psychoses	....	....	....	....	....	....	....	....	....
(c) Senile Dementia	....	....	....	....	....	....	....	....	....
Manic Depressive Psychoses.—									
(a) Manic States	....	....	....	....	....	....	....	....	....
(b) Depressed States	....	....	....	....	....	....	....	....	....
(c) Mixed States	....	....	....	....	....	....	....	....	....
Carried Forward	....	....	....	....	....	....	....	....	....

TABLE No. 10—*Continued.*

Showing form of mental disease of patients admitted, discharged and died during the year.

Mental Disease.	Admitted.			Discharged.			Died.		
	Male.	Female	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Brought Forward	....	....	....	....	....	....	....	....	....
Paranoia	....	....	....	....	....	....	....	....	....
Psychoses from Constitutional Neuroses:—									
(a) Epileptic Psychoses	....	....	....	....	....	....	....	....	....
(b) Hysterical Psychoses	....	....	....	....	....	....	....	....	....
(c) Sexualis Psychopathia	....	....	....	....	....	....	....	....	....
States of Deficient Mental Development:—									
(a) Imbecility	7	5	22	....	2	2	....	....	....
(b) Idiocy	....	....	....	1	....	1	6	7	13
Not Diagnosed	12	14	26	....	....	....	11	10	21
Not Insane	....	....	....	....	....	....	....	....	....
Totals	19	29	48	1	2	3	17	17	34

TABLE No. 11—ORILLIA.

Periods.	Alleged duration of insanity prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1912.	Periods of treatment of those who were discharged recovered during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treatment of those who died during the year.
Under 1 month	.....	6	.....	.....	.....	.....
From 1 to 2 months	.....	1	.....	.....	.....	1
" 2 " 3 "	.....	7	.....	.....	.....	.....
" 3 " 4 "	.....	3	.....	.....	.....	.....
" 4 " 5 "	.....	6	.....	.....	.....	.....
" 5 " 6 "	.....	1	.....	.....	.....	.....
" 6 " 9 "	.....	16	.....	.....	.....	.....
" 9 " 12 "	.....	7	.....	.....	.....	.....
" 12 " 18 "	.....	37	.....	.....	.....	2
" 18 months to 2 years	.....	19	.....	.....	1	.....
" 2 to 3 years	.....	36	.....	1	.....	.....
" 3 " 4 "	.....	48	.....	.....	.....	.....
" 4 " 5 "	.....	35	.....	.....	.....	2
" 5 " 10 "	.....	190	.....	1	.....	14
" 10 " 15 "	.....	136	.....	.....	.....	5
" 15 " 20 "	.....	119	.....	.....	.....	8
" 20 years and upwards	.....	150	.....	.....	.....	2
Totals	.....	817	.....	2	1	34

Bird's-Eye View of Buildings and Grounds, Woodstock.

HOSPITAL FOR EPILEPTICS, WOODSTOCK, ONTARIO.

ANNUAL REPORT OF THE MEDICAL SUPERINTENDENT FOR YEAR ENDING OCTOBER 31ST, 1912.

To E. R. ROGERS, ESQ.,

Inspector of Hospitals for the Insane, Idiotic and Epileptics.

SIR,—I have the honour to submit to you the Seventh Annual Report of the Hospital for Epileptics for the year ending October 31, 1912.

We had remaining in residence November 1st, 1911, 198 patients. We admitted during the year 27 males and 16 females. Total number under treatment for the year, 241; total number discharged, 23; discharges were as follows: improved 15; unimproved 8; number of deaths during the year, 22; total number that left the institution 45; remaining in residence October 31st, 1912, 196.

Total number of applications sent out, 103; applications sent out by request but not returned 43; applications rejected 5; void applications 16; number of vacancies granted but patients not received, 8.

The death rate at the Hospital has been high during the past year. The explanation for this is found in the large number of our patients who have serious lesions of the heart valve as a result of epilepsy, and the effect of the frequent seizures over a prolonged period causes the heart to collapse suddenly during the strain of an attack. These were all cases of long standing, most of them existing from infancy. As a result of this, the patients had been in a very weakened condition for many months previous to death.

The improvements have been many during the past year in the way of painting, drainage, fixing driveways, and removing stone from the farms. The new residence is well on the way to completion. The wet weather delayed the building operations considerably, but the house is all roofed and closed in, so that inside work can be continued.

Returns from farm and garden have been very satisfactory.

The work of the Hospital during the past year has been carried on by the officers and employees in a very loyal manner and we close the year with a feeling of satisfaction, fully appreciating the interest and attention to duty that has been exhibited.

As a result of our labours, we are pleased to be able to report some marked improvement in a large number of our patients.

In closing this report, I wish to thank you for your courtesy and kind consideration in all matters pertaining to the welfare of the Institution.

I have the honour to remain,

Your obedient servant,

J. J. WILLIAMS,

Medical Superintendent.

ANNUAL STATISTICAL REPORT OF THE OPERATIONS OF THE HOSPITAL FOR EPILEPTICS, WOODSTOCK, FOR THE YEAR ENDING OCT. 31st, 1912.

TABLE No. 1—WOODSTOCK.

Showing movements of patients in the Hospital for the official year ending October 31st, 1912.

	Male.	Female.	Total.	Male.	Female.	Total.
Capacity of Hospital	104	104	208			
In Residence, Oct. 31st, 1911				102	96	198
Admitted during year 1912:—						
By Warrant	3	1	4			
By Medical Certificate	24	15	39	27	16	43
Total number under treatment during year 1912				129	112	241
Discharges during year:—						
As recovered						
As improved	9	6	15			
As unimproved	6	2	8			
As not insane						
Total number discharged during year	15	8	23			
Died	11	11	22			
Deported						
Eloped						
Transferred				26	19	45
Remaining in Hospital, Oct. 31st, 1912	26	19	45	103	93	196
Total number admitted since opening of Hospital				215	156	371
Total number discharged since opening of Hospital	81	40	121			
Total number died since opening of Hospital	27	20	47			
Total number deported since opening of Hospital						
Total number eloped since opening of Hospital						
Total number transferred since opening of Hospital	4	3	7	112	63	175
Total remaining in Hospital, Oct. 31st, 1912				103	93	196
Daily average population	99.01	95.41	194.60			
Collective days' stay of all patients in residence during year	36,203	34,825	71,028			
Number of applications on fyle	4	2	6			

Cottages, Woodstock.

TABLE No, 2—WOODSTOCK.

Showing social state and religion of patients admitted during the year and since opening of Hospital.

	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
SOCIAL STATE.						
Single	20	13	33	176	125	301
Married	7	3	10	39	31	70
Widowed	.....	.....	.....	.....	.....	.....
Divorced	.....	.....	.....	.....	.....	.....
Separated	.....	.....	.....	.....	.....	.....
Unascertained	.....	.....	.....	.....	.....	.....
Totals	27	16	43	215	156	371
RELIGION.						
Baptists	1	.....	1	13	16	29
Congregationalists	.....	.....	.....	.....	.....	.....
Church of England	4	5	9	54	38	92
Methodists	10	6	16	59	52	111
Presbyterians	5	3	8	50	29	79
Roman Catholics	3	1	4	18	9	27
Other Denominations	4	1	5	16	7	23
Unascertained	.....	.....	.....	5	5	10
Totals	27	16	43	215	156	371

TABLE No. 3—WOODSTOCK.

Showing nativity of patients admitted during the year and since opening of Hospital.

Nativity.	Admissions of Year.			Admissions since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Total Admissions	27	16	43	215	156	371
Total born in Canada	20	12	32	173	127	300
Armenia						
Assyria						
Austria						
Australia						
Belgium						
Bulgaria						
Central America						
China						
Denmark						
England	3	4	7	20	19	39
France						
Finland						
Galicia						
Germany	1		1	3		3
Greece						
Holland						
Hungary						
Ireland	1		1	6	4	10
Italy						
Japan						
Macedonia						
Other British Possessions						
Norway						
Roumania						
Russia					1	1
Scotland	1		1	5	4	9
South America						
Spain						
Sweden						
Turkey						
United States				8	1	9
West Indies						
Unascertained	1		1			
Totals	27	16	43	215	156	371

TABLE No. 4—WOODSTOCK.

Showing the occupation of those admitted during the year and since the opening of the Hospital

Occupation.	Admitted this year.			Since opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Professional:— Clergy, Military and Naval Officers, Physicians, Lawyers, Architects, Artists, Authors, Civil Engineers, Surveyors, etc.	.....	.....	.....	3	.....	3
Commercial:— Bankers, Merchants, Accountants, Clerks, Salesmen. Stenographers, Typewriters, etc.	2	.....	2	15	2	17
Agricultural and Pastoral:— Farmers, Gardeners, Stock Men, etc.	7	.....	7	35	.....	35
Mechanics at Outdoor Vocations:— Railway and Stationary Engineers, Blacksmiths, Carpenters, Engine Fitters, Sawyers. Painters, Police, etc.	1	.....	1	11	.....	11
Mechanics, etc., at Sedentary Vocations:— Shoemakers, Bookbinders, Compositors, Weavers, Tailors, Seamstresses, Bakers, Factory Workers, etc	2	.....	2	13	8	21
Domestic Service:— Waiters, Cooks, Servants, etc.	1	5	6	2	21	23
Education and Higher Domestic Duties:— Governesses, Teachers, Students, Housekeepers, Nurses, etc.	.....	5	5	4	45	49
Miners, Marine Engineers, Railway Employees, Seamen, etc.	.....	.....	.....	.....	.....	.....
Laborers	11	.....	11	58	.....	58
No occupation	3	6	9	67	80	147
Unascertained	.....	.....	.....	7	.....	7
Totals	27	16	43	215	156	371

TABLE No. 5—WOODSTOCK.

Showing the Counties and Districts from which patients have been admitted during the year, and since opening of Hospital.

Counties and Districts.	Admitted during year.			Admitted since opening.			Warrant cases.						Remaining in residence.		
							Admitted during year.			Admitted since opening.					
	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.	Male.	Female.	Total.
Algoma District	....	....	....	1	1	2	....	....	....	1	1	2	1	1	2
Brant	1	....	1	7	6	13	....	....	....	....	....	.....	3	2	5
Bruce	2	....	2	3	3	6	....	....	....	....	....	.....	3	1	4
Carleton	1	....	1	2	5	7	....	....	....	....	....	.....	1	4	5
Dufferin	....	....	....	4	3	7	....	....	....	....	....	.....	1	1	2
Dundas	....	....	....	1	....	1	....	....	....	....	....	.....	....	....	.....
Durham	....	....	....	2	....	2	....	....	....	....	....	.....	....	....	.....
Elgin	....	....	....	3	4	7	....	....	....	1	....	1	2	3	5
Essex	....	....	....	2	2	4	....	....	....	....	....	.....	....	1	1
Frontenac	....	....	....	2	....	2	....	....	....	....	....	.....	....	....	.....
Glengarry	....	....	....	....	....	.....	....	....	....	....	....	.....	....	....	.....
Grenville	....	....	....	....	....	.....	....	....	....	....	....	.....	....	....	.....
Grey	....	....	....	1	1	2	....	....	....	....	....	.....	....	1	1
Haldimand	....	....	....	1	....	1	....	....	....	1	....	1	1	....	1
Halton	....	....	....	3	1	4	....	....	....	1	....	1	1	2	3
Hastings	2	1	3	5	3	8	....	....	....	....	....	.....	4	1	5
Huron	1	....	1	5	1	6	....	....	....	....	....	.....	3	1	4
Kent	....	....	....	4	3	7	....	....	....	....	....	.....	2	3	5
Lambton	2	1	3	10	8	18	....	....	....	1	....	1	4	4	8
Lanark	....	1	1	1	1	2	....	....	....	....	....	.....	1	....	1
Leeds	....	....	....	....	2	2	....	....	....	....	....	.....	....	2	2
Lennox and Addington	....	....	....	....	1	1	....	....	....	....	....	.....	....	....	.....
Lincoln	2	1	3	5	1	6	....	....	....	....	1	1	3	1	4
Middlesex	3	2	5	18	6	24	....	....	....	....	....	.....	6	6	12
Muskoka District	....	....	....	....	1	1	....	....	....	....	....	.....	....	1	1
Nipissing District	....	....	....	1	2	3	....	....	....	....	....	.....	....	2	2
Norfolk	....	....	....	4	2	6	....	....	....	....	....	.....	....	....	.....
Northumberland	....	1	1	....	1	1	....	....	....	....	....	.....	....	1	1
Ontario	....	....	....	1	5	6	....	....	....	....	....	.....	1	1	2
Oxford	....	1	1	11	9	20	....	....	....	....	....	.....	4	5	9
Parry Sound District	....	....	....	....	1	1	....	....	....	....	....	.....	....	1	1
Peel	....	....	....	....	1	1	....	....	....	....	....	.....	....	1	1
Perth	1	....	1	10	1	11	....	....	....	....	....	.....	4	1	5
Peterborough	....	....	....	1	2	3	....	....	....	....	....	.....	....	2	2
Prescott	....	....	....	....	....	.....	....	....	....	....	....	.....	....	....	.....
Prince Edward	1	....	1	2	1	3	....	....	....	....	....	.....	1	1	2
Rainy River District	....	....	....	....	....	.....	....	....	....	....	....	.....	....	....	.....
Renfrew	....	....	....	1	....	1	....	....	....	....	....	.....	1	....	1
Russell	....	....	....	....	1	1	....	....	....	....	....	.....	....	1	1
Simcoe	1	....	1	8	4	12	....	....	....	1	....	1	5	2	7
Stormont	....	....	....	2	2	4	....	....	....	....	....	.....	2	1	3
Thunder Bay District	....	....	....	4	....	4	....	....	....	3	....	3	3	....	3
Victoria	....	....	....	4	4	8	....	....	....	1	....	1	2	2	4
Waterloo	....	....	....	8	1	9	....	....	....	2	....	2	2	1	3
Welland	1	....	1	3	....	3	....	....	....	1	....	1	2	....	2
Wellington	1	1	2	4	6	10	....	....	....	....	....	.....	2	3	5
Wentworth	....	2	2	14	15	29	....	....	....	....	....	.....	6	10	16
York	8	5	13	53	44	97	3	1	4	4	2	6	30	22	52
Unascertained	....	....	....	4	1	5	....	....	....	....	....	.....	2	1	3
Totals	27	16	43	215	156	371	3	1	4	17	4	21	103	93	196

The Pond, Woodstock.

TABLE No. 6—WOODSTOCK.

Showing the assigned causes of Epilepsy in the cases admitted during year.

Causes.	Men.	Women	Total.	Inherited Predisposition.			Un-ascertained.
				Men.	Women.	Total.	
Moral:—							
Adverse Conditions (such as loss of friends, business troubles, etc.)							
Mental Strain, Worry and Over-work (not included in above)							
Religious Excitement							
Love Affairs, including seduction							
Fright and Nervous Shock	1	3	4				
Physical:—							
Alcoholism	4		4				
Sexual Excess							
Venereal Diseases							
Masturbation	2		2				
Insolation							
Accident or Injury	3		3				
Pregnancy							
Parturition and Puerperium							
Lactation		1	1				
Climacteric Period		2	2				
Fevers							
Privation and Overwork	1	1	2				
Epilepsy							
Other Convulsive Diseases	1		1				
Diseases of Brain and Skull							
Senility							
Exophthalmic Goitre							
Epidemic Influenza							
Abuse of Drugs	1		1				
Lose of Special Sense							
Uræmia							
Other Auto-infection	1		1				
Other Bodily Diseases	3	1	4				
Hereditary:—							
Congenital Defect	1		1				
Unascertained	9	8	17				
Not Insane							
Totals	27	16	43				

TABLE No. 7—WOODSTOCK.

Showing hereditary tendency to Epilepsy in patients admitted during the year and since the opening of the Hospital.

	Admitted during Year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Paternal Branch	1	1	2	12	6	18
Maternal Branch	1	1	2	15	11	26
Paternal and Maternal Branches	.....	1	1	1	3	4
Collateral Branches	4	2	6	14	11	25
No Hereditary Tendency	17	9	26	159	121	280
Unascertained	4	2	6	14	4	18
Totals	27	16	43	215	156	371

TABLE No. 8—WOODSTOCK.

Showing summary of Probational Discharges during the year.

	Male.	Female.	Total.
Number granted Discharge	6	5	11
Discharged, Recovered	.....	.....	.....
Discharged, Improved	2	.....	2
Discharged, Unimproved	.....	.....	.....
Died	.....	.....	.....
Returned to Hospital	4	4	8
Absent on Probation on October 31st, 1912	.....	1	1
Included in regular discharges	6	5	11

TABLE No. 9—WOODSTOCK.

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Specific Infectious Diseases:—						
Typhoid Fever						
Influenza						
Cerebro-spinal Meningitis						
Diphtheria						
Erysipelas						
Septicæmia						
Dysentery						
Syphilis						
Tuberculosis				1		1
Constitutional Diseases:—						
Rheumatism						
Arthritis Deformans						
Diabetes Mellitus						
Diseases of the Digestive System:—						
Mouth, salivary glauds						
Pharynx						
Tonsils						
Œsophagus					1	1
Diseases of the Intestines:—						
Diseases of the Liver						
Diseases of the Pancreas						
Diseases of the Peritoneum						
Diseases of the Respiratory System:—						
Diseases of the Nose and Larynx						
Diseases of the Bronchi	1		1	1		1
Diseases of the Lungs		1	1	4	3	7
Diseases of the Pleura						
Diseases of the Circulatory System:—						
Diseases of the Pericardium						
Diseases of the Heart		2	2	1	3	4
Arterio-selerosis						
Aneurism						
Diseases of the Blood and Duetless Glands:—						
Anæmia	2	1	3	2	2	4
Pernicious Anæmia						
Leukæmia						
Exophthalmic Goitre						
Diseases of the Genito-Urinary System						
Totals—*Carried Forward*	3	4	7	9	9	18

TABLE No. 9—WOODSTOCK—*Continued.*

Showing the causes of death of patients who died during the year and since the opening of the Hospital.

Cause of Death.	Died during year.			Since Opening.		
	Male.	Female.	Total.	Male.	Female.	Total.
Totals—*Brought Forward*	3	4	7	9	9	18
Diseases of the Nervous System:—						
Diseases of the Nerves						
Diseases of the Spinal Cord						
Diseases of the Meninges						
Organic Diseases of the Brain (Tumor, Abscess, Embolism, Thrombosis, Hemorrhage and other gross lesions)	1		1	2		2
Functional Nervous Diseases (Paralysis Agitans, Chorea, Eclampsia, Hysteria)				2		2
Epilepsy	7	7	14	14	10	24
Mental Diseases:—						
Exhaustion of Acute Mental Disease						
Exhaustion of Chronic Mental Disease						
General Paresis						
Intoxications:—						
Alcoholism						
Morphinism						
Metallic Poisoning						
Heat Stroke						
Debility of Old Age						
Accident						
Suicide						
Surgical Diseases						
Gynæcological Diseases						
Malignant New Growths, or Cancer					1	1
Totals	11	11	22	27	20	47

TABLE No. 11—WOODSTOCK.

Periods.	Alleged duration of epilepsy prior to admission.	Length of residence of those remaining in Hospital on Oct. 31st, 1912.	Periods of treatment of those who were discharged recovered during the year.	Periods of treatment of those who were discharged improved during the year.	Periods of treatment of those who were discharged unimproved during the year.	Periods of treatment of those who died during the year.
Under 1 month	.....	5	.....	.....	.....	1
From 1 to 2 months	.....	6	.....	.....	1	.....
" 2 " 3 "	1	2	.....	.....	.....	.....
" 3 " 4 "	.....	5	.....	.....	3	.....
" 4 " 5 "	.....	.....	.....	.....	.....	.....
" 5 " 6 "	.....	4	.....	1	1	.....
" 6 " 9 "	.....	11	.....	2	.....	3
" 9 " 12 "	1	5	.....	.....	.....	3
" 12 " 18 "	.....	14	.....	4	2	4
" 18 months to 2 years	1	13	.....	4	.....	1
" 2 to 3 years	1	49	.....	3	1	8
" 3 " 4 "	1	25	.....	.....	.....	1
" 4 " 5 "	2	23	.....	1	.....	.....
" 5 " 10 "	7	34	.....	.....	.....	1
" 10 " 15 "	17	.....	.....	.....	.....	.....
" 15 " 20 "	4	.....	.....	.....	.....	.....
" 20 years and upwards	8	.....	.....	.....	.....	.....
Totals	43	196	.....	15	8	22